

# How To Use This Catalog

- You are now viewing the JSC Undergraduate Catalog. To switch to the Graduate Catalog, choose that option from the drop-down menu above.
- From any Academic Program page, click the "paper" icon (at the top or bottom) to create a complete degree plan with courses of study for that program, which can then be printed and kept for reference.
- Click on any course to drop down a course description and related info (including any hyperlinked pre-requisites, which also may be opened). To close out of the description, click the course name again.
- Select "Course Descriptions" from the left navigation to pull up every course organized chronologically by course type, then course number. The search box at top allows you to filter this list a variety of ways. Select "Filter" to see search results for the criteria you have entered. (Note: An asterisk [\*] can be used as a wildcard in the "Code or Number" field. If you want to see all 3000-level courses searches, for example, enter 3\* in that field.)
- You can create your own "Favorites" folder where you can store courses, programs of study, catalog information, etc. To do this, set up an account by selecting the "My Favorites" link in the left-hand navigation (bottom link). To add items to your Favorites folder, simply click the star icon at the top or bottom.
- The help menu ("?" icon) is user friendly and should answer any questions you may have.

If you notice any errors or questionable content, please email the Assistant Academic Dean.

## Catalog Home

The Johnson State College Undergraduate Catalog is the official source of information about JSC undergraduate academic programs, courses, policies and procedures. It should be used as a guide in planning a course of study and meeting graduation requirements. It should not be regarded as a contract between students and Johnson State College, as JSC reserves the right to make changes in course offerings, degree requirements, charges, regulations and procedures as educational and financial considerations require.

This catalog takes effect July 1, 2017, and remains in effect until superseded by a new issue. (To view the JSC *Graduate Catalog*, select that option from the drop-down menu at upper right.)

Course offerings and requirements are continually examined and revised, and not all courses in this catalog are offered every semester. JSC publishes a Course Bulletin each semester listing the courses to be offered that semester, along with times, locations and other pertinent information. Because changes may occur after the Bulletin is published, students are advised to check "Search for Course Sections" on the MyJSC Portal for the most up-to-date information.

The JSC catalog is published annually by the Office of the Academic Dean. The online catalog contains a number of features to assist users, including advanced search options, intuitive navigation and a personal "Favorites" folder where you can store favorite programs and courses.

For earlier versions of either the graduate or undergraduate catalogs that are not available via the drop-down menu at upper right, contact the Office of the Registrar at 802-635-1677.

## Accreditation

Johnson State College is accredited by the New England Association of Schools and Colleges and the Vermont Department of Education. For inquiries regarding NEASC accreditation, you may contact the NEASC Commission on Institutions of Higher Education by email or call 855-886-3272 toll free.

## **Equal Opportunity & Non-Discrimination**

Johnson State College is committed to equal opportunity and affirmative action. We administer all programs, procedures and practices without regard to age, color, disability, marital status, national or ethnic origin, political affiliation, race, religion, sex, sexual orientation, gender identity, veteran status, or family medical or genetic information. See the College-Wide Policies section of this catalog for additional information about this and other policies related to non-discrimination and other prohibited conduct.

### **Johnson State College**

337 College Hill • Johnson, VT 05656-9464  
802-635-2356 • 800-635-2356 • Fax (802) 635-1230  
Admissions@jsc.edu  
www.jsc.edu

## **History & Mission**

### **Johnson State College: A Brief History**

The history of Johnson State College dates back to 1828 when John Chesamore, a village cobbler, gave his shoe shop to the village of Johnson for a much-needed elementary and secondary school. Dr. Carpenter, a Chelsea, Vermont preacher became the schoolmaster when the school was chartered in 1832 as Johnson Academy.

In 1836, five communities incorporated as the Lamoille County Grammar School Association to support the school. In 1866, the State designated Johnson Academy as one of three new "Normal Schools," institutions specifically for teacher training. The Johnson Normal School offered one-, two- and three-year teacher training programs until 1947 when the State approved a four-year teacher-training program, and the school became Johnson Teachers College.

By an act of the 1961 Legislature, the Vermont State Colleges Board of Trustees was created to oversee the state college system. This new board assumed control on July 1, 1962, and Johnson Teachers College became Johnson State College. This new name signaled a change in the College's mission from a single-purpose teacher-training college to a multi-purpose liberal arts college. Since that time, the College's curriculum in the liberal arts and sciences, its enrollment and its facilities have expanded dramatically to meet this new mission. In recent years, the College has embarked on an ambitious plan to transform the campus to enhance teaching, learning and community gathering spaces. In 2008, a \$7 million renovation of Stearns Student Center was completed. This renovation transformed the building into a true student union with community gathering spaces, a performance space, a cinema and excellent dining facilities. In 2009, the College completed a major renovation of its athletics facility with the creation of a new fitness center, spinning studio, yoga/exercise rooms and a transformed varsity gymnasium. In the summer of 2011, major renovations to Bentley Hall, home to JSC's environmental and health sciences programs, were completed, resulting in a new molecular lab, a fully renovated and expanded Earth sciences lab and a dedicated research lab for upper-level students conducting their senior-level thesis projects. And in the winter of 2012, the fully renovated Visual Arts Center was reopened, featuring rejuvenated studios classrooms, dedicated work spaces for BFA students, updated classrooms and offices, a new gallery and a Mac lab.

The College has come a long way from that first class of 16 students in a converted cobbler's shop. Johnson State's modern, dozen-building campus spreads over 330 hilltop acres and serves nearly 1900 students from Vermont and around the country.

The College is accredited as a multi-purpose public institution by the New England Association of Schools and Colleges and is approved as a degree-granting institution by the Vermont State Board of Education.

## **The Johnson State College Mission**

Johnson State College believes in the power of a liberal arts education to transform lives. We express this belief by providing high-impact, interdisciplinary learning experiences that cross academic and experiential boundaries; by creating opportunities for students to extend their classroom learning to the field, the laboratory, the studio, the community and the local and wider world; by recognizing and supporting the diverse starting points, backgrounds and goals of students; and by sustaining high standards, active participation, vigorous debate, and mutual respect.

## **The Mission of the Vermont State Colleges**

For the benefit of Vermont, the Vermont State Colleges provide affordable, high-quality, student-centered and accessible education, fully integrating professional, liberal arts and career study. This integrated education, in conjunction with applied learning experiences, assures that graduates of VSC programs will:

1. Demonstrate competence in communication, research and critical thinking.
2. Practice creative problem-solving both individually and collaboratively.
3. Be engaged, effective and responsible citizens.
4. Bring to the workplace appropriate skills and an appreciation of work quality and ethics.
5. Embrace the necessity and joy of lifelong learning.

The Vermont State Colleges also offer numerous opportunities for others to engage in continuous learning to meet their specific goals.

## **College-Wide Policies**

### **VSC Policies 311 & 311A: Non-Discrimination & Prevention of Harassment and Related Unprofessional Conduct**

The Vermont State Colleges (VSC) and each member college, including Johnson State College, do not discriminate based on race, color, creed, ancestry, ethnicity, national origin, place of birth, sex, sexual orientation, gender identity, disability, age, veteran status, marital status, HIV status or any other status protected by law. Sexual harassment, racial harassment and harassment based on other protected categories also are forms of discrimination and are not tolerated. Further, inappropriate sexual relationships between staff and students are prohibited even if they do not rise to the level of sexual harassment.

This policy of non-discrimination applies to the application processes for admissions and employment, academic and residential programs, employment practices and policies, scholarship and loan programs, and all programs and facilities, including athletics. JSC is an equal opportunity employer.

Sexual misconduct, which includes sexual harassment and sexual violence is a form of sex discrimination and therefore is a violation of VSC Policy 311 as well as federal (Title IX) and state law and the JSC Code of Conduct, which can be found in the JSC Student Handbook.

VSC Policy 311-A, adopted in September 2014, relates to sexual misconduct, domestic violence, dating violence, stalking and related conduct. It calls for prompt and appropriate remedial action to stop the misconduct, including student suspension,

dismissal or expulsion of students; suspension or termination of employment; and referral for criminal investigation and prosecution under Vermont law.

VSC Policies 311 and 311-A can be read in their entirety by selecting "Student Affairs Policies" in the Policies & Procedures section of the VSC website at [www.vsc.edu](http://www.vsc.edu).

To initiate a formal or informal complaint of discrimination or harassment, or for further information, contact Assistant Academic Dean Jo Ann Lamore, JSC's Policy 311 coordinator, at 802-635-1243 or by email to [JoAnn.Lamore@jsc.edu](mailto:JoAnn.Lamore@jsc.edu). For accommodations in order to apply for admission, please contact the Office of Academic Support Services at 802-635-1264; for accommodations relative to employment, please contact the Dean of Administration at 802-635-1208.

## **Title IX**

Title IX is a federal law that prohibits discrimination based on gender in any educational program or activity. The law states that "no person in the United States shall on the basis of sex be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance." The amendment in 1987 expanded the definition of program or activity to include all the operations of an educational institution, governmental entity or private employer that receive federal funds. Sexual misconduct, including domestic violence, dating violence, sexual assault and stalking, are prohibited by Title IX as well as by state law and by VSC and JSC policies. The Title IX Campus Coordinator is Associate Dean of Students Michele Whitmore, who can be reached by phone at 802-635-1200 or via e-mail at [Michele.Whitmore@jsc.edu](mailto:Michele.Whitmore@jsc.edu).

## **Family Educational Rights & Privacy Act (FERPA)**

The Family Educational Rights & Privacy Act of 1974 (FERPA) affords students certain rights with respect to their educational records. The primary rights afforded to each student include but are not limited to the right to inspect and review their education records, the right to amend incorrect records and the right to limit disclosure of information from the records.

In accordance with federal law and regulations issued by the Department of Education, the Vermont State Colleges System ("VSC") has adopted policies and procedures for each of its Colleges. The Colleges within the VSC are: Castleton University, Johnson State College, Lyndon State College, Vermont Technical College, and the Community College of Vermont. The purpose of this VSC policy is to provide guidance on the rights of inspection and the prohibitions against unauthorized dissemination of educational information. The VSC's FERPA policy is available on the MyJSC Portal under VSC Public Info and Data (see VSC Policy and Procedures / Student Affairs / Policy 312) and at the Advising and Registration Center.

More information is available from:

Family Policy Compliance Office  
U.S. Department of Education  
400 Maryland Ave. SW  
Washington, DC 20202-4605  
Email: [FERPA@ed.gov](mailto:FERPA@ed.gov)  
Telephone: (202) 260-3887  
Fax: (202) 260-9001

## **Federal Clery Act Compliance**

In compliance with the federal Jeanne Clery Disclosure of Campus Security Policy & Campus Statistics Act [20 USC 1092(f)], JSC's Department of Public Safety prepares and publishes an annual campus security and fire safety report each October 1 for the purpose of disclosing campus crime and fire statistics, security policies and enforcement. This report includes information about the College's alcohol and drug policies, sexual-assault education and prevention programs, and procedures for reporting and

handling reports of sexual assaults. The report is available online, or you may request a printed copy from the Office of Public Safety.

The Office of Public Safety is staffed 24 hours a day, 7 days a week, 365 days a year. An officer on duty can be reached anytime by calling 802-635-1205 (or extension 51205 from a campus phone).

## Photographs & Videos

Johnson State College and its representatives occasionally take photographs and record videos for use by the College in print and electronic media. This statement serves as public notice of the College's intent to do so and as a release to the College of permission to use such images and recordings as it deems fit. Students may withdraw their consent to appear in photos or videos created by the College and its representatives by completing a form available from the Advising and Registration Center.

## Academic Calendar

### Fall 2017

August 1	Deadline to apply for December 2017 graduation.
Monday, August 28	Classes begin.
Monday, September 4	Labor Day -- Classes in session.
Friday, September 8	Final day to add/drop courses. Deadline for independent study and internship contracts to be submitted to the Academic Dean's Office.
Friday, October 6	Fall recess begins after last class.
Saturday, October 7	Residence halls close at 10 a.m.
Mon.-Fri., October 9-13	No classes -- Fall Break.
Sunday, October 15	Residence halls open at 10 a.m.
Monday, October 16	Classes resume.
Friday, October 20	Deadline to complete Spring 2017 Incomplete grades.
Monday, October 23	Second-half semester courses begin.
Friday, November 3	Last day for course withdrawals. Last day to add and drop second-half semester courses.
Monday, November 13	Registration for Spring 2018 begins
Friday, November 17	Thanksgiving break begins after last class
Saturday, November 18	Residence halls close at 10 a.m.
Mon.-Fri., November 20-24	No classes - Thanksgiving Break.

Sunday, November 26	Residence halls open at 10 a.m.
Monday, November 27	Classes resume.
Friday, December 15	Last day of classes.
Mon.-Fri., December 18-22	Final exams.
Friday, December 22	Last day of semester.
Saturday, December 23	Residence halls close at 10 a.m.

## Spring 2018

Sunday, January 21	Residence halls open at 10 a.m.
Monday, January 22	Classes begin. Martin Luther King Jr. Day.
Friday, February 2	Final day to add and drop courses. Deadline for independent study and internship contracts to be submitted to the Academic Dean's Office. Deadline to apply for May 2018 graduation.
Friday, February 23	Winter recess begins after last class.
Saturday, February 24	Residence halls close at 10 a.m.
Mon.-Fri., February 26-March 2	No classes - Winter Break.
Sunday, March 4	Residence halls open at 10 a.m.
Monday, March 5	Classes resume.
Friday, March 16	Deadline to complete Fall 2017 Incomplete grades.
Monday, March 19	Second-half semester courses begin.
Friday, March 30	Last day for course withdrawals. Last day to add and drop second-half semester courses.
Monday, April 2	Registration for Summer and Fall 2018 begins.
Friday, April 6	Spring break begins after last class.
Saturday, April 7	Residence halls close at 10 a.m.
Mon.-Fri., April 9-13	No classes - Spring Break.
Sunday, April 15	Residence halls open at 10 a.m.
Monday, April 16	Classes resume.
Friday, May 11	Last day of classes.
Mon.-Fri., May 14-18	Final exams.
Friday, May 18	Last day of semester. Residence halls close at 5 p.m.

## Academic Departments

### Behavioral Sciences

#### Faculty / Staff

Susan Green, *Professor, Department Co-Chair*  
Gina Mireault, *Professor, Department Co-Chair*

Leslie Johnson, *Associate Professor*

Kimberly Donovan, *Assistant Professor*

Leona Jochnowitz, *Assistant Professor*

Daniel Weigel, *Assistant Professor*

Vicky Sanborn, *Staff Assistant*

Programs in the Behavioral Sciences Department explore the ways humans behave, both as individuals and as groups, and the impact of this behavior on society. Each major provides a different lens through which to view these topics. Anthropology examines cultural differences and similarities; sociology examines the relationships and interactions between humans and social structures; psychology examines individual human behavior and intelligences.

The Wellness & Alternative Medicine major combines aspects of all three of these disciplines with the study of biology, chemistry, anatomy and other sciences to deliver a practical education in a variety of healing and health practices used throughout the world.

*The Behavioral Sciences Department offers courses with the following designators: ANT (anthropology), CRJ (criminal restorative justice), CSV (community service/volunteer), PSY (psychology), SSC (social science), SOC (sociology) and WAM (wellness & alternative medicine). See full Course Descriptions. The department also offers a Master of Arts program in counseling; refer to the JSC Graduate Catalog for information. (To access the graduate catalog, chose it from the drop-down menu at upper right.)*

#### Majors & Concentrations

##### Anthropology & Sociology (B.A.)

With integrative study in anthropology and sociology, students investigate and learn to appreciate how diversities and social-structural arrangements among people affect the distribution of power and the ability of people to live meaningful, sustainable lives and co-exist in a fair, socially just world. Anthropology explores the range of cultural and biological differences and

similarities among all peoples; topics include evolution, environment, symbolism, values, art, healing, religion and consciousness. Sociology investigates social interaction, the societal forces of inequality and power, and how social structures, economics, politics, education, religion, technology and the media affect the way we behave, interact and view the world.

## Learning Outcomes

Anthropology & Sociology graduates should be able to demonstrate:

1. Knowledge of the concepts, theories and methodologies of cultural and social forces and their impact on personal life choices, community relationships, national issues and globalization.
2. Holistic, interdisciplinary critical thinking in a way that integrates oral, written, visual, geographic, computer-based and media literacy skills, to evaluate and communicate the "bigger picture" of societal institutions and multi-cultural forces on our personal choices, our societal arrangements and our global involvements.
3. Cultural diversity skills that acknowledge the many beliefs, values, languages, norms, sanctions, symbols and technologies that inform lifestyles across the globe.
4. Informed knowledge of the power of social and cultural forces to bear upon both personal life choices and on civic responsibility and accountability to co-create a socially just, diverse and sustainable world.
5. Preparedness to further their education or enter careers that require interpersonal, multicultural knowledge and "people skills" in diversity, global awareness and social justice. Career options include education, personnel management, social service agencies, government positions doing research and training, criminal justice and international intelligence agencies.

## Anthropology & Sociology Curriculum

### Required Core Courses (15 credits)

- ANT-1010 Introduction to Cultural Anthropology 3 credits
- SOC-1010 Introduction to Sociology 3 credits
  
- ANT-3110 Development of Anthropological Thinking 3 credits **OR**
- SOC-4020 Sociological Theory 3 credits
  
- ANT-3120 Science, Research Methods & Ethics 3 credits
- ANT-4720 Senior Seminar in Anthropology/Sociology 3 credits

### Electives (18 credits)

Take at least 6 credits from the following:

- ANT-3020 Religion, Culture & Alternate Realities 3 credits
- ANT-3040 Culture Change in the Modern World 3 credits
- ANT-3130 Culture & Personality 3 credits
- ANT-4010 Anthropology of Death 3 credits
- ANT-4020 Multicultural Health, Illness & Healing 3 credits
- ANT-4730 Topical Seminar in Anthropology 1-3 credits

Take at least 6 credits from the following:

- SOC-2040 Race/Ethnicity, Class & Gender 3 credits
- SOC-2050 Drugs, Herbs & Society 3 credits
- SOC-2140 Sociolinguistics 3 credits
- SOC-2150 Civic Engagement: The Heart of Social Change 3 credits
- SOC-3020 Environment & Society 3 credits
- SOC-3040 Social Movement, Culture & Activism 3 credits
- SOC-3050 Gender & Society 3 credits
- SOC-3060 Sexuality & Intimacy 3 credits
- SOC-3080 Wellness & Alternative Medicine 3 credits
- SOC-3130 Mass Media & Society 3 credits
- SOC-3230 Alternative Medicine, Science & Disease 3 credits
- SOC-4010 Family Violence 3 credits
- SOC-4030 Global Health, Diversity & Policy 3 credits
- SOC-4730 Topical Seminar in Sociology 1-3 credits

Optional: Take no more than 6 credits from the following:

- CSV-1011 Principles in Community Service Learning 2 credits
- CSV-1012 Community Service Learning 1 credits
- CSV-3010 Leadership through Volunteer Service Learning 1 credits
  
- FRE-1111 French I 3 credits **AND**
- FRE-1111L French I Lab 1 credits
  
- FRE-3010 Culture & Civilization through Correspondence & Conversation 3 credits
- HIS-2210 Women in U.S. History 3 credits
- HIS-3450 Women in European History 3 credits
- HIS-3225 Latin America: Mexico to Chile; History, Politics, Cultures 3 credits
- HUM-3150 People & Cultures of the Middle East & North Africa 3 credits
- HUM-3160 African Culture 3 credits
- MUS-3050 The Social History of Rock & Roll 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits
- PSY-3230 Psychology of Gender 3 credits
  
- SPA-1011 Spanish I 3 credits **AND**
- SPA-1011L Spanish I 1 credits

Total: 33 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Anthropology & Sociology (B.A.): Criminal Justice concentration**

This concentration in the B.A. in Anthropology & Sociology program goes beyond the study of law and crime to explore complex issues of social justice related to crime, punishment and victimization, including race, class, gender and sexuality. Students explore current trends and controversies and gain cross-cultural competencies needed to work successfully with diverse populations. A distinguishing feature of this program is its emphasis on the growing field of restorative justice, a technique that involves working with victims as well as offenders.

**Students graduate with a B.A. in Anthropology & Sociology with a concentration in Criminal Justice.** The Anthropology & Sociology major itself develops in students an understanding of diversities and social structural arrangements among people affect the distribution of power and the ability of people to live meaningful, sustainable lives and co-exist in a fair and socially just world. (Note: Criminal Justice also is offered as a concentration in the B.A. in Political Science.)

The multidisciplinary concentration in criminal justice draws on JSC's rich liberal arts tradition and commitment to high-impact education -- "learning by doing" -- to explore the relationships of crime, law and social justice. It also cross-cultural competency, preparing students to communicate and work with those from a wide range of backgrounds and with disparate life experiences.

Supported by a network of community partner organizations, the program offers internships in the field of criminal justice, particularly in the arenas of restorative justice and victim advocacy as well as in border patrol and other areas of law enforcement. Students complete these internships in their junior or senior year along with a concurrent senior seminar.

A range of disciplines are brought to bear on criminal justice, including anthropology, political science, psychology and sociology. The program prepares student for a careers in law enforcement and criminal investigation, crime analysis, juvenile justice, victim advocacy, restorative justice and community development, social justice and public policy. A criminal justice background also prepares students to pursue careers in law, from working as paralegals and legal assistants to attending law school.

## **Learning Outcomes**

In addition to meeting the learning outcomes of the B.A. in Anthropology & Sociology, upon completion of the concentration in criminal justice, students should be able to:

1. Critically evaluate key theories about crime and criminal behavior.
2. Critically assess existing criminal justice systems with the aim of improving their condition and function.
3. Identify and assess alternative solutions to problems associated with existing models of crime control.
4. Develop and demonstrate sufficient self-awareness to understand the influence of personal biases and values in interacting with diverse groups.
5. Identify and analyze ways in which oppression, privilege, discrimination, and social and economic disadvantage contribute to inequalities and injustices within criminal justice systems.
6. Understand key issues and approaches in the field of criminal justice, including mental health, substance abuse, youth development, trauma-informed care, and results-based accountability.
7. Demonstrate familiarity with key skill sets in the field of criminal justice, including effective communication and conflict resolution and de-escalation.
8. Apply understandings of research methods and data collection techniques for conducting research in criminal justice.
9. Apply understandings of criminal justice policy and key controversies to field experiences.

# Anthropology & Sociology Curriculum

## Required Core Courses (15 credits)

- ANT-1010 Introduction to Cultural Anthropology 3 credits
- SOC-1010 Introduction to Sociology 3 credits
  
- ANT-3110 Development of Anthropological Thinking 3 credits **OR**
- SOC-4020 Sociological Theory 3 credits
  
- ANT-3120 Science, Research Methods & Ethics 3 credits
- ANT-4720 Senior Seminar in Anthropology/Sociology 3 credits

## Electives (18 credits)

Take at least 6 credits from the following:

- ANT-3020 Religion, Culture & Alternate Realities 3 credits
- ANT-3040 Culture Change in the Modern World 3 credits
- ANT-3130 Culture & Personality 3 credits
- ANT-4010 Anthropology of Death 3 credits
- ANT-4020 Multicultural Health, Illness & Healing 3 credits
- ANT-4730 Topical Seminar in Anthropology 1-3 credits

Take at least 6 credits from the following:

- SOC-2040 Race/Ethnicity, Class & Gender 3 credits
- SOC-2050 Drugs, Herbs & Society 3 credits
- SOC-2140 Sociolinguistics 3 credits
- SOC-2150 Civic Engagement: The Heart of Social Change 3 credits
- SOC-3020 Environment & Society 3 credits
- SOC-3040 Social Movement, Culture & Activism 3 credits
- SOC-3050 Gender & Society 3 credits
- SOC-3060 Sexuality & Intimacy 3 credits
- SOC-3080 Wellness & Alternative Medicine 3 credits
- SOC-3130 Mass Media & Society 3 credits
- SOC-3230 Alternative Medicine, Science & Disease 3 credits
- SOC-4010 Family Violence 3 credits
- SOC-4030 Global Health, Diversity & Policy 3 credits
- SOC-4730 Topical Seminar in Sociology 1-3 credits

Optional: Take no more than 6 credits from the following:

- CSV-1011 Principles in Community Service Learning 2 credits
- CSV-1012 Community Service Learning 1 credits
- CSV-3010 Leadership through Volunteer Service Learning 1 credits
  
- FRE-1111 French I 3 credits **AND**
- FRE-1111L French I Lab 1 credits
  
- FRE-3010 Culture & Civilization through Correspondence & Conversation 3 credits
- HIS-2210 Women in U.S. History 3 credits
- HIS-3450 Women in European History 3 credits
- HIS-3225 Latin America: Mexico to Chile; History, Politics, Cultures 3 credits
- HUM-3150 People & Cultures of the Middle East & North Africa 3 credits
- HUM-3160 African Culture 3 credits
- MUS-3050 The Social History of Rock & Roll 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits
- PSY-3230 Psychology of Gender 3 credits
  
- SPA-1011 Spanish I 3 credits **AND**
- SPA-1011L Spanish I 1 credits

## Criminal Justice Curriculum

*Note:* Criminal Justice requirements that meet requirements for the major are also applied toward the major.

### Required Core Courses (16 credits)

- CRJ-1010 Introduction to Criminal Justice 3 credits
  - CRJ-1040 Criminal Justice Lecture Series: Careers in the Field 1 credits
  - CRJ-4770 Criminal Justice Internship Seminar 1 credits
  - CRJ-4810 Internship in Criminal Justice 1-12 credits (Internship must be a minimum of 3 credits)
  - CRJ-4770 Senior Seminar 1 credit (pending approval)
- Criminal Justice internships must be arranged the semester prior to the semester in which they occur, and they must be taken concurrently with the Senior Seminar.*
- POS-1010 Introduction to Political Science 3 credits **OR**
  - POS-1020 American Politics & Government 3 credits
  
  - ANT-1010 Introduction to Cultural Anthropology 3 credits **OR**
  - SOC-1010 Introduction to Sociology 3 credits
  
  - CRJ-4020 Criminal Justice: Who is "Criminal"? 3 credits **OR**
  - PSY-3065 Abnormal Behavior 3 credits **OR**

- SOC-2040 Race/Ethnicity, Class & Gender 3 credits **OR**
- SOC-3170 Power, Politics & Inequality 3 credits

## Electives (take 12 credits)

- CRJ-2150 Community & Restorative Justice 3 credits
- CRJ-2230 Introduction to Criminal Law 3 credits
- CRJ-4020 Criminal Justice: Who is "Criminal"? 3 credits
- CRJ-4730 Topical Seminar in Criminal Justice 1-3 credits
- PSY-4035 Forensic Psychology 3 credits
- PHI-1040 Introduction to Ethics 3 credits
- POS-1040 African-American History & Politics 3 credits
- POS-2110 State & Local Government 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3070 Terrorism, Religion & the Nation-State 3 credits
- POS-3170 U.S. Constitutional Law 3 credits
- POS-3210 Canadian Politics 3 credits
- PSY-3065 Abnormal Behavior 3 credits
- SOC-2040 Race/Ethnicity, Class & Gender 3 credits
- SOC-3050 Gender & Society 3 credits
- SOC-3170 Power, Politics & Inequality 3 credits
- SOC-4010 Family Violence 3 credits
- SSC-1050 FYS: A Call to Action 3 credits

Total: 61-72 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Psychology (B.A.)

### Psychology Programs at JSC

Students in the B.A. in Psychology program explore a wide range of theories concerning human behavior, development, thought, emotion, learning, intelligence, personality, group dynamics and abnormal behavior. Through coursework, fieldwork and research opportunities, students apply the knowledge gained in class to the real world and are encouraged to use what they learn toward understanding themselves and their relationships. Students have the opportunity to work as research assistants during the school year and in the summer. An internship is required. Elective options help students explore career possibilities, such as working with the chronically mentally ill, with children and families, and in the areas of organizational psychology, addictions, art therapy, forensic psychology and more. However, the study of psychology provides excellent preparation for careers not only in psychology, but in any field in which an understanding of human behavior is useful.

# Learning Outcomes

The B.A. in Psychology is designed to produce students who graduate with a strong understanding the field of psychology, how it relates to interpersonal communication and behavior, and the practical application of this knowledge and skill set.

## Psychology Core Curriculum

- PSY-1010 Introduction to Psychology 3 credits
- PSY-1035 The Psychology Major 1 credits
- PSY-2040 Social Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits
- PSY-2410 Research Methods in Psychology 3 credits
- PSY-3010 Theories of Personality 3 credits
- PSY-3065 Abnormal Behavior 3 credits
- PSY-3125 The Evolution of Psychology 3 credits
- PSY-4010 Biological Psychology 3 credits
- PSY-4770 Senior Seminar in Psychology 1 credits
- PSY-4810 Internship in Psychology 1-12 credits \*
- MAT-2030 Probability & Statistics 3 credits

*\* Psychology internships must be arranged the semester prior to which they are to occur and must be included in the plan of study. The required internship must be taken concurrently with the Senior Seminar. Students completing the Health & Sport Psychology concentration must complete their internship in an area/setting relevant to health and sport psychology.*

## Psychology Electives (choose 15 credits)

- PSY-3030 Organizational Psychology 3 credits
- PSY-3230 Psychology of Gender 3 credits
- PSY-3250 Multicultural Psychology 3 credits
- PSY-3330 Psychology of Addictions 3 credits
- PSY-3345 The Psychology of Groups 3 credits
- PSY-4090 Controversial Issues in Psychology 3 credits
- PSY-4330 Introduction to Clinical Skills 3 credits
- PSY-4340 Fundamentals of Community Mental Health 3 credits
- PSY-4760 Topical Seminar in Psychology 3 credits \*
- PSY-4810 Internship in Psychology 1-12 credits
- PSY-4910 Independent Study in Psychology 1-12 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- ANT-3130 Culture & Personality 3 credits
- ANT-4010 Anthropology of Death 3 credits
- BIO-3160 Animal Behavior 4 credits
- SOC-3060 Sexuality & Intimacy 3 credits
- SOC-4010 Family Violence 3 credits

*\* Different topics rotate through the course; each may be taken for elective credit toward the major.*

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Psychology (B.A.): Health & Sport Psychology concentration

This program explores how psychology can be used to improve motivation and performance, how physical activity improves mental health and overall well-being, and how stress and other psychological factors affect health and wellness. Students may engage in original research projects in collaboration with faculty and have the opportunity to assist with ongoing research into biofeedback as a tool for exercise motivation. An internship in an area/setting relevant to health and sport psychology is required. **Graduates earn a B.A. in Psychology with a concentration in Health & Sport Psychology.**

## Psychology Programs at JSC

Students in the B.A. in Psychology program explore a wide range of theories concerning human behavior, development, thought, emotion, learning, intelligence, personality, group dynamics and abnormal behavior. Through coursework, fieldwork and research opportunities, students apply the knowledge gained in class to the real world and are encouraged to use what they learn toward understanding themselves and their relationships. Students have the opportunity to work as research assistants during the school year and in the summer. An internship is required. Elective options help students explore career possibilities, such as working with the chronically mentally ill, with children and families, and in the areas of organizational psychology, addictions, art therapy, forensic psychology and more. However, the study of psychology provides excellent preparation for careers not only in psychology, but in any field in which an understanding of human behavior is useful.

## Learning Outcomes

The B.A. in Psychology is designed to produce students who graduate with a strong understanding the field of psychology, how it relates to interpersonal communication and behavior, and the practical application of this knowledge and skill set.

## Psychology Core Curriculum

- PSY-1010 Introduction to Psychology 3 credits
- PSY-1035 The Psychology Major 1 credits
- PSY-2040 Social Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits
- PSY-2410 Research Methods in Psychology 3 credits
- PSY-3010 Theories of Personality 3 credits
- PSY-3065 Abnormal Behavior 3 credits
- PSY-3125 The Evolution of Psychology 3 credits
- PSY-4010 Biological Psychology 3 credits
- PSY-4770 Senior Seminar in Psychology 1 credits
- PSY-4810 Internship in Psychology 1-12 credits \*
- MAT-2030 Probability & Statistics 3 credits

*\* Psychology internships must be arranged the semester prior to which they are to occur and must be included in the plan of study. The required internship must be taken concurrently with the Senior Seminar. Students completing the*

*Health & Sport Psychology concentration must complete their internship in an area/setting relevant to health and sport psychology.*

## Health & Sport Psychology Curriculum (15-16 credits)

In addition to the 11 core psychology courses, students completing the concentration in Health & Sport Psychology must complete the following courses, which apply toward the major's electives requirements as well.

- AHS-4025 Health Behavior: Change & Adherence 3 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- AHS-4110 Psychophysiology of Stress 3 credits

Choose 2 of the following:

- AHS-1010 Contemporary Health Issues 3 credits
- AHS-3120 Kinesiology 3 credits
- AHS-3230 Physiology of Exercise 4 credits
- BIO-3180 Nutrition 3 credits
- SOC-3080 Wellness & Alternative Medicine 3 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Psychology (B.A.): Pre-Professional Counseling concentration

The B.A. in Psychology with a concentration in Pre-Professional Counseling is designed to provide psychology majors with basic knowledge and a foundational set of skills needed for success in post-baccalaureate training in counseling-related disciplines. In addition, it prepares students for the required capstone internship experience needed to work in clinical settings, and it incorporates career exploration. This concentration does not provide direct route to a job as a "counselor" or to admissions in JSC's graduate counseling program; rather, it provides students who wish to pursue a career in mental health-related fields with a tangible path to follow in the psychology major. **Students graduate with a B.A.in Psychology with a concentration in Pre-Professional Counseling.**

## Psychology Programs at JSC

Students in the B.A. in Psychology program explore a wide range of theories concerning human behavior, development, thought, emotion, learning, intelligence, personality, group dynamics and abnormal behavior. Through coursework, fieldwork and research opportunities, students apply the knowledge gained in class to the real world and are encouraged to use what they learn toward understanding themselves and their relationships. Students have the opportunity to work as research assistants during the school year and in the summer. An internship is required. Elective options help students explore career possibilities, such as working with the chronically mentally ill, with children and families, and in the areas of organizational psychology, addictions, art therapy, forensic psychology and more. However, the study of psychology provides excellent preparation for careers not only in psychology, but in any field in which an understanding of human behavior is useful.

# Learning Outcomes

The B.A. in Psychology is designed to produce students who graduate with a strong understanding the field of psychology, how it relates to interpersonal communication and behavior, and the practical application of this knowledge and skill set.

## Psychology Core Curriculum

- PSY-1010 Introduction to Psychology 3 credits
- PSY-1035 The Psychology Major 1 credits
- PSY-2040 Social Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits
- PSY-2410 Research Methods in Psychology 3 credits
- PSY-3010 Theories of Personality 3 credits
- PSY-3065 Abnormal Behavior 3 credits
- PSY-3125 The Evolution of Psychology 3 credits
- PSY-4010 Biological Psychology 3 credits
- PSY-4770 Senior Seminar in Psychology 1 credits
- PSY-4810 Internship in Psychology 1-12 credits \*
- MAT-2030 Probability & Statistics 3 credits

*\* Psychology internships must be arranged the semester prior to which they are to occur and must be included in the plan of study. The required internship must be taken concurrently with the Senior Seminar. Students completing the Health & Sport Psychology concentration must complete their internship in an area/setting relevant to health and sport psychology.*

## Pre-Professional Counseling Curriculum (15 credits)

In addition to the 11 core psychology courses, students completing the concentratin in Pre-Professional Counseling must complete the following courses, which apply toward the major's electives requirement as well.

- PSY-3330 Psychology of Addictions 3 credits
- PSY-3345 The Psychology of Groups 3 credits
- PSY-4330 Introduction to Clinical Skills 3 credits
- PSY-4340 Fundamentals of Community Mental Health 3 credits

## Take one of the following (3 credits)

- PSY-3230 Psychology of Gender 3 credits
- PSY-3250 Multicultural Psychology 3 credits
- SOC-4010 Family Violence 3 credits

**Important:**

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Wellness & Alternative Medicine (B.S.)**

Launched in 2000 and updated in spring 2014 to reflect advances in medical knowledge and contemporary practice, the B.S. degree in Wellness & Alternative Medicine at JSC is based on the scientific protocols set by the National Institutes of Health's National Center for Complementary & Alternative Medicine and Bastyr University's Naturopathic Medical School program in Seattle, Wash.

An interdisciplinary collaboration between JSC's Behavioral Sciences and Environmental & Health Sciences departments, the program employs societal, cultural, biochemical and global frameworks to investigate the history, principles and scientific evidence for the safety and effectiveness of diverse modalities to heal disease and to create wellness. It provides the scientific knowledge and practical skills needed to make informed healthcare decisions and lifestyle choices and to prepare for careers as state-of-the-art healthcare professionals, veterinarians and doctors.

Students study conventional, allopathic medicine in the U.S. as well as alternative medical models from around the world. On-campus and EDP students may elect to co-enroll in approved certification programs to become massage therapists, yoga instructors, reiki masters and Ayurvedic consultants. (This option is not available to students enrolled in this program through JSC Online.) Graduates are prepared for initial positions in the wellness and fitness industry, hospital employee-assistance programs, social-assistance programs, the diet and supplements industry and as assistants to alternative medical practitioners. Many graduates go on to graduate and medical schools to become physicians, nurses, chiropractors, naturopathic physicians, Chinese medical doctors, ayurvedic physicians and homeopathic doctors.

The curriculum for this program was reviewed in 2012 by Dr. James S. Gordon, director of the Center for Mind-Body Medicine Program at Georgetown University, former chair of the White House Commission on Complementary & Alternative Medicine and a member of the Advisory Council for the NIH National Center for Complementary & Alternative Medicine (NCCAM), and in 2004 by Dr. Joseph Jacobs, former director of NCCAM. Their comments and suggestions have guided the curriculum that takes effect in fall 2015.

## **Learning Outcomes for Wellness & Alternative Medicine Majors**

1. Students will demonstrate interdisciplinary knowledge of the behavioral and biological evolution, principles and scientific evidence for the healing claims of conventional allopathic medicine and of diverse multicultural alternative health care systems.
2. Students will develop integrative critical thinking and investigative and evaluative skills for making optimal health care choices through scientific comparison of healing and wellness claims of diverse health care models.
3. Students will demonstrate their competency as multilingual integrative health care translators who are fluent in the concepts, principles and integration of multicultural models of health care and who assist professionals in the comparison of diverse sources of evidence for healing claims.
4. Students will prepare for alternative and allopathic medical careers as integrative physicians, nurses, nurse practitioners, Chinese medical doctors, naturopaths, chiropractors, massage therapists, health research scientists, epidemiologists and health policy planners.

### **Required Courses (49 credits)**

#### **Core Courses**

- AHS-1010 Contemporary Health Issues 3 credits
  - BIO-2011 Human Anatomy & Physiology I 4 credits
  - BIO-2012 Human Anatomy & Physiology II 4 credits
  - SOC-1040 Integrative Health & Professional Series 1 credits
  - SOC-3080 Wellness & Alternative Medicine 3 credits
  - SOC-3230 Alternative Medicine, Science & Disease 3 credits
  - SOC-4740 Senior Integrative Health Care Seminar 1 credits
  - WAM-2030 Wellness Lifestyle & Career Seminar 1 credits
- 
- AHS-4810 Internship in Allied Health Science 1-12 credits (Must be at least 1 credit)  
**OR**
  - ANT-4810 Internship in Anthropology 1-12 credits (Must be at least 1 credit)  
**OR**
  - SOC-4810 Internship in Sociology 1-12 credits (Must be at least 1 credit)  
**OR**
  - WAM-4810 Internship in Wellness & Alternative Medicine 1-12 credits (Must be at least 1 credit)

## Alternative Health Systems & Mind-Body Medicine

### Choose 8 credits:

- ANT-3140 Yoga and Ayurveda: Science & Culture 3 credits
- WAM-2010 Native American Healing - The Lakota & Shamanic Traditions 1 credits
- WAM-2020 Chinese Medicine & Acupuncture I 1 credits
- WAM-2040 Introduction to Meditation 1 credits
- WAM-2060 Naturopathic Medicine 1 credits
- WAM-2070 Massage & Bodywork 1 credits
- WAM-2080 Homeopathy I 1 credits
- WAM-2050 Herbs: The Medicine Garden 1 credits
- WAM-3020 Chinese Medicine & Acupuncture II 3 credits
- WAM-3050 Herbalism, Wellness & Healing 3 credits
- WAM-3040 Mindfulness Meditation 3 credits
- WAM-3070 Massage, Science & Wellness 3 credits
- WAM-3080 Homeopathy II 3 credits

## Biology of Life

### Choose one of the following:

- BIO-1210 Introduction to Biology 4 credits
- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits

## Chemistry

### Choose one of the following:

- CHE-1031 General Chemistry I 4 credits
- CHE-1055 General Chemistry, Organic Chemistry & Biochemistry 4 credits

## Drugs, Herbs & Pharmacology

**Choose one of the following:**

- SOC-2050 Drugs, Herbs & Society 3 credits
- AHS-3050 Introduction to Pharmacology 3 credits
- WAM-3030 Applied Herbal Pharmacology 3 credits

## Healthcare & Healing Around the World

**Choose one of the following:**

- ANT-4020 Multicultural Health, Illness & Healing 3 credits
- SOC-4030 Global Health, Diversity & Policy 3 credits
- WAM-3060 Healing All Wounds: Global Humanitarian Aid and Warzone Medicine 3 credits

## Nutrition: The Biochemistry & Eco-Politics of Food and Diet

**Choose one of the following:**

- BIO-3180 Nutrition 3 credits
- SOC-3240 Nutrition, Food & Society 3 credits
- WAM-3025 Epigenetics: Diet, Lifestyle & Environment 3 credits

## Stress: Biopsychological Response & Wellness Lifestyle Choices

**Choose one of the following:**

- AHS-4110 Psychophysiology of Stress 3 credits
- AHS-4025 Health Behavior: Change & Adherence 3 credits
- WAM-3010 Living the Good Life 3 credits

## Required & Recommended Electives for Graduate Study in Medicine

Students who intend to pursue graduate study to prepare for clinical medical careers (e.g., physician, nurse practitioner, midwife, physician assistant, nurse, naturopathic doctor, chiropractor, Chinese medical doctor) should take the following courses *and* check with their future post-graduate school to ensure they will meet all undergraduate requirements in order to apply for admission.

## Required Electives

- CHE-1032 General Chemistry II 4 credits
- CHE-3111 Organic Chemistry I 4 credits
- CHE-3112 Organic Chemistry II 4 credits
- PHY-1041 Physics I 4 credits
- PHY-1042 Physics II 4 credits
- PSY-2070 Developmental Psychology 3 credits

## Recommended Electives

- BIO-3130 Cellular Biology: A Molecular Approach 4 credits
- BIO-3140 Microbiology 4 credits
- BIO-3220 Genetics 4 credits
- MAT-1531 Calculus I 4 credits
- MAT-2030 Probability & Statistics 3 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Minors

### **Anthropology & Sociology Minor**

#### Required Courses

- ANT-1010 Introduction to Cultural Anthropology 3 credits
- SOC-1010 Introduction to Sociology 3 credits
- SOC-4020 Sociological Theory 3 credits **OR**
- ANT-3110 Development of Anthropological Thinking 3 credits

#### Electives: 9 credits

- Three ANT/SOC - courses, at least 2 must be at the 3000 or 4000 level

Total: 18 credits

### **Psychology Minor**

## Required Courses

### Core Courses

- PSY-1010 Introduction to Psychology 3 credits
- PSY-2040 Social Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits
- PSY-3010 Theories of Personality 3 credits
- PSY-3065 Abnormal Behavior 3 credits

### Electives

- Nine psychology credits at the 3000 level and above to be chosen at the discretion of the student and advisor.

Total: 24 credits

## Wellness & Alternative Medicine Minor

The minor in Wellness & Alternative Medicine is designed for students in other majors who are interested in receiving credit for and taking courses in health, wellness, and alternative medicine.

### Required Core Courses

- AHS-1010 Contemporary Health Issues 3 credits
- SOC-3080 Wellness & Alternative Medicine 3 credits

## Alternative Health Systems & Mind-Body Medicine

Choose any 5 credits:

- ANT-3140 Yoga and Ayurveda: Science & Culture 3 credits
- WAM-2010 Native American Healing - The Lakota & Shemanic Traditions 1 credits
- WAM-2020 Chinese Medicine & Acupuncture I 1 credits
- WAM-2040 Introduction to Meditation 1 credits
- WAM-2050 Herbs: The Medicine Garden 1 credits
- WAM-2060 Naturopathic Medicine 1 credits
- WAM-2080 Homeopathy I 1 credits
- WAM-3020 Chinese Medicine & Acupuncture II 3 credits
- WAM-3040 Mindfulness Meditation 3 credits
- WAM-3050 Herbalism, Wellness & Healing 3 credits
- WAM-3080 Homeopathy II 3 credits

## Healthcare & Healing Around the World

Choose one of the following:

- ANT-4020 Multicultural Health, Illness & Healing 3 credits
- SOC-4030 Global Health, Diversity & Policy 3 credits
- WAM-3060 Healing All Wounds: Global Humanitarian Aid and Warzone Medicine 3 credits

## Nutrition: Biochemistry & Eco-Politics Food & Diet

Choose one of the following:

- BIO-3180 Nutrition 3 credits
- SOC-3240 Nutrition, Food & Society 3 credits
- WAM-3025 Epigenetics: Diet, Lifestyle & Environment 3 credits

## Stress: Biopsychological Response & Wellness Lifestyle Choices

Choose one of the following:

- AHS-4025 Health Behavior: Change & Adherence 3 credits
- AHS-4110 Psychophysiology of Stress 3 credits
- WAM-3010 Living the Good Life 3 credits

Total: 20 credits

## Business & Economics

### Faculty / Staff

James Black, *Professor, Department Chair*

Todd Comen, *Professor*

Henrique Cezar, *Associate Professor*

Andrew Lafrenz, *Coordinator of Sport Management Concentration*

Renate Callahan, *Administrative Assistant*

The Business & Economics Department offers five concentrations within the B.A. degree in business: accounting, hospitality and tourism, management, marketing, and sport management. Through coursework and internships with businesses and organizations, students gain skills and knowledge needed to succeed as owners and leaders in business and finance. Coursework and practicums focus on planning, organizational structure, leadership, human resources, marketing and financial management.

Also available is a two-year (A.S.) degree in management; a minor in business and economics; and two certificate programs: accounting and small business management.

### **Masters of Business Administration Articulation Agreement between Johnson State College & Clarkson University**

Johnson State College students who plan their undergraduate program carefully are able to earn their Master of Business Administration (M.B.A.) from Clarkson University in Potsdam, New York, in only one year. If JSC students include the courses that serve as a foundation for the M.B.A. program, they are able to eliminate the need for up to one year of Clarkson's two-year program. In this way, a student could earn both an undergraduate degree from Johnson State College and an M.B.A. from Clarkson in just five years.

<b>Clarkson University Foundation Requirements</b>	<b>JSC Course Equivalents</b>
Accounting: Financial & Managerial	ACC 2121 and ACC 2122
Economics: Micro & Macro	ECO 2030 and ECO 2020
Corporate Finance	BUS 3230
Operations/Production Management	BUS 3150
Computer Science: Information Systems	CIS 1410
Statistics & Quantitative Methods	MAT 2030
Law & Society	BUS 3131
Principles of Management and Organizational Theory	BUS 3250
Principles of Marketing	BUS 2230

## **Business & Economics Certificates**

Certificates are designed for non-majors who are interested in an overview of the field. Certificates introduce students to the fundamentals of the discipline and are less comprehensive than a minor.

*The Department of Business & Economics offers courses with the following designators: ACC (accounting), BUS (business), CIS (computer information systems), ECO (economics), and HTM (hospitality and tourism management). See full Course Descriptions.*

## **Majors & Concentrations**

### **Business (B.A.): Accounting concentration**

Students in this program complete a core of business courses plus 20 credits in accounting and financial reporting. Students gain specialized knowledge in accounting and financial reporting as well as an integrated overview of the economic activities of

business entities. An internship is required. **Graduates earn a B.A. in Business with a concentration in Accounting** and are prepared for entry-level positions in public accounting, business, government and nonprofit organizations.

Students who intend to become licensed or certified public accountants (CPAs) in Vermont are advised that they must complete the following *additional* academic requirements as adopted by the state in July 2014: They must complete a total of 150 credit hours (30 more than a typical bachelor's degree), and 42 of those credits must be in accounting-related courses. This may be accomplished by taking summer classes as well as a full course load (18 credits) during the fall and spring semesters or by enrolling in JSC's Proficiency in Accounting Certificate program following graduation. (Note: In addition to the *academic* requirements, Vermont regulations require one year of accounting work experience in order to gain licensure and sit for the national CPA exam.)

## Business Programs at JSC

The B.A. in Business is designed to provide students with the skills, knowledge and wisdom necessary to run their own business, be successful in an organization of their choosing and be prepared for graduate study. The program encompasses product and service planning, organizational structure, leadership, human resource management, marketing and financial management. Students engage in both classroom and high-impact learning experiences, including internships with businesses and organizations. By agreement with Clarkson University, **graduates who successfully complete specific courses through this program may earn an M.B.A. with one year of graduate study** at Clarkson. Refer to the Business & Economics Department page for details.

## Learning Outcomes

The B.A. in Business is designed to produce graduates who can:

1. Successfully apply classroom knowledge to real-world experiences.
2. Demonstrate industry-appropriate communication skills and the ability to work effectively with diverse groups in a team environment.
3. Demonstrate the ability to adapt themselves to a changing business environment while encouraging others to do so as well.
4. Demonstrate the ability to amass, evaluate and interpret complex information to make effective business decisions.
5. Demonstrate the appropriate business norms and ethics, as well as mastery of the fundamental skills and knowledge required to successfully steward a business operation.

## Business Curriculum

### Required Core Courses (38 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-4720 Senior Seminar 3 credits

- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

*In addition, all Business students are strongly encouraged to take MAT 2030 MAT-2030 Probability & Statistics and MAT 1221 MAT-1221 Finite Mathematics to meet part of their General Education Curriculum requirements.*

## Accounting Concentration

### Required Concentration Courses (20 credits)

- ACC-2230 Federal Taxes 3 credits
- ACC-2210 Cost Accounting 3 credits
- ACC-2201 Intermediate Accounting I 4 credits
- ACC-2202 Intermediate Accounting II 4 credits
- BUS-4810 Internship in Business Management 1-12 credits (6 credits)

Total: 58 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Business (B.A.): Hospitality & Tourism Management concentration**

Tourism and hospitality is one of the worlds' fastest growing industries. This program includes a core of business courses, with additional courses in hospitality and tourism management. Students complete more than 480 hours of documented experiential learning over four years, including a mandatory internship. **Graduates earn a B.A. in Business with a concentration in Hospitality & Tourism Management.**

Tourism and hospitality is one of the world's fastest growing industries, employing millions around the globe and providing exciting career opportunities near and far. Business students in this concentration will complete a rigorous internship to complement their learning. Past internships included our local area ski resorts, the Boston Harbor Hotel, the Dunes in South Carolina and the Sheraton Hotel in Oahu, Hawaii.

Students complete both business and HTM courses and select from a broad range of electives to round out their education. Faculty connections and formal partnerships enable JSC to connect students with top resorts, hotels, restaurants and event-management firms for part-time employment during their college years and rewarding careers following graduation.

## Business Programs at JSC

The B.A. in Business is designed to provide students with the skills, knowledge and wisdom necessary to run their own business, be successful in an organization of their choosing and be prepared for graduate study. The program encompasses product and

service planning, organizational structure, leadership, human resource management, marketing and financial management. Students engage in both classroom and high-impact learning experiences, including internships with businesses and organizations. By agreement with Clarkson University, **graduates who successfully complete specific courses through this program may earn an M.B.A. with one year of graduate study** at Clarkson. Refer to the Business & Economics Department page for details.

## Learning Outcomes

The B.A. in Business is designed to produce graduates who can:

1. Successfully apply classroom knowledge to real-world experiences.
2. Demonstrate industry-appropriate communication skills and the ability to work effectively with diverse groups in a team environment.
3. Demonstrate the ability to adapt themselves to a changing business environment while encouraging others to do so as well.
4. Demonstrate the ability to amass, evaluate and interpret complex information to make effective business decisions.
5. Demonstrate the appropriate business norms and ethics, as well as mastery of the fundamental skills and knowledge required to successfully steward a business operation.

## Business Curriculum

### Required Core Courses (38 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-4720 Senior Seminar 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

*In addition, all Business students are strongly encouraged to take MAT 2030 MAT-2030 Probability & Statistics and MAT 1221 MAT-1221 Finite Mathematics to meet part of their General Education Curriculum requirements.*

## HTM Concentration

### Required Concentration Courses (21 credits)

- HTM-1010 Survey of Hospitality & Tourism 3 credits

- HTM-3010 Food & Beverage Management 3 credits
- HTM-3110 Lodging & Resort Operations 3 credits
- HTM-3230 Facility Planning & Design 3 credits
- BUS-3440 Ecotourism and Sustainability 3 credits
- BUS-4810 Internship in Business Management 1-12 credits (6 credits)

Total: 59 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Business (B.A.): Management concentration

Through internships, case studies and simulations, students apply theory to actual business situations and develop skills in strategic planning, organization, leadership and human resources. The program includes a core of business courses. **Graduates earn a B.A. in Business with a concentration in Management.** This program provides students with the skills and knowledge to run their own business, succeed in an organization of their choosing, or pursue an M.B.A.

## Business Programs at JSC

The B.A. in Business is designed to provide students with the skills, knowledge and wisdom necessary to run their own business, be successful in an organization of their choosing and be prepared for graduate study. The program encompasses product and service planning, organizational structure, leadership, human resource management, marketing and financial management. Students engage in both classroom and high-impact learning experiences, including internships with businesses and organizations. By agreement with Clarkson University, **graduates who successfully complete specific courses through this program may earn an M.B.A. with one year of graduate study** at Clarkson. Refer to the Business & Economics Department page for details.

## Learning Outcomes

The B.A. in Business is designed to produce graduates who can:

1. Successfully apply classroom knowledge to real-world experiences.
2. Demonstrate industry-appropriate communication skills and the ability to work effectively with diverse groups in a team environment.
3. Demonstrate the ability to adapt themselves to a changing business environment while encouraging others to do so as well.
4. Demonstrate the ability to amass, evaluate and interpret complex information to make effective business decisions.
5. Demonstrate the appropriate business norms and ethics, as well as mastery of the fundamental skills and knowledge required to successfully steward a business operation.

## Business Curriculum

## Required Core Courses (38 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-4720 Senior Seminar 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

*In addition, all Business students are strongly encouraged to take MAT 2030 MAT-2030 Probability & Statistics and MAT 1221 MAT-1221 Finite Mathematics to meet part of their General Education Curriculum requirements.*

## Management Concentration Curriculum (18 credits)

- BUS-3150 Production/Operations Management 3 credits
- BUS-3230 Financial Management 3 credits
- BUS-4060 Strategic Management 3 credits
- BUS-4810 Internship in Business Management 1-12 credits (6 credits)
- CIS-1430 Spreadsheets 3 credits

Total: 56 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Business (B.A.): Marketing concentration**

The B.A. in Business with a concentration in Marketing connects business theory and practice with the modern-day realities of lightning-speed advances in technology, social media and "big data" capabilities. Through a required internship, case studies, simulations and real projects completed for local businesses, students develop 21st-century skills in business and marketing.

**Graduates earn a B.A. in Business with a concentration in Marketing.**

Students conduct and analyze market research, develop marketing plans and examine how businesses and organizations respond to marketing challenges. In the process, they develop teamworking and presentation skills, the ability to plan in advance and think strategically, and the knowledge and skills to use social media and the Internet to build both a brand and a base of loyal

customers. Supported by a diverse liberal arts curriculum, students gain a solid foundation in communications, critical thinking, problem solving, decision-making and creativity that forms the basis for success in this high-demand field.

## Business Programs at JSC

The B.A. in Business is designed to provide students with the skills, knowledge and wisdom necessary to run their own business, be successful in an organization of their choosing and be prepared for graduate study. The program encompasses product and service planning, organizational structure, leadership, human resource management, marketing and financial management. Students engage in both classroom and high-impact learning experiences, including internships with businesses and organizations. By agreement with Clarkson University, **graduates who successfully complete specific courses through this program may earn an M.B.A. with one year of graduate study** at Clarkson. Refer to the Business & Economics Department page for details.

## Learning Outcomes

The B.A. in Business is designed to produce graduates who can:

1. Successfully apply classroom knowledge to real-world experiences.
2. Demonstrate industry-appropriate communication skills and the ability to work effectively with diverse groups in a team environment.
3. Demonstrate the ability to adapt themselves to a changing business environment while encouraging others to do so as well.
4. Demonstrate the ability to amass, evaluate and interpret complex information to make effective business decisions.
5. Demonstrate the appropriate business norms and ethics, as well as mastery of the fundamental skills and knowledge required to successfully steward a business operation.

## Business Curriculum

### Required Core Courses (38 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-4720 Senior Seminar 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

*In addition, all Business students are strongly encouraged to take MAT 2030 MAT-2030 Probability & Statistics and MAT 1221 MAT-1221 Finite Mathematics to meet part of their General Education Curriculum requirements.*

## Marketing Concentration Curriculum (18 credits)

- BUS-3050 Principles of Sales 3 credits
- BUS-3210 Advertising 3 credits
- BUS-4030 Marketing Research 3 credits
- BUS-4810 Internship in Business Management 1-12 credits (6 credits)
- CIS-2220 Website Design 3 credits

Total: 56 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Business (B.A.): Social Entrepreneurship concentration

This concentration in the Business major is designed for students interested in the entrepreneurial pursuit of social impact. The core Business curriculum provides a strong foundation for any student looking to become a successful sector leader. However, students looking to use their skills and talents for social impact must approach their work thoughtfully, recognizing the unique challenges, opportunities, and qualities associated with trying to create social value. The Social Entrepreneurship Concentration is designed to serve students who aspire at some point in their lives to be social entrepreneurs, executives in social-purpose organizations, philanthropists, board members, or leading volunteers in their communities and the social sector. Courses in this concentration will also appeal to students interested in incorporating strategies for social impact into their business and entrepreneurial careers. **Graduates earn a B.A. in Business with a concentration in Social Entrepreneurship.**

Interdisciplinary coursework in sociology and psychology will be integrated with the theory and practice of socially responsible business management, making the curriculum relevant for traditional and social entrepreneurs as well as for those focused on business management and nonprofit management.

## Business Programs at JSC

The B.A. in Business is designed to provide students with the skills, knowledge and wisdom necessary to run their own business, be successful in an organization of their choosing and be prepared for graduate study. The program encompasses product and service planning, organizational structure, leadership, human resource management, marketing and financial management. Students engage in both classroom and high-impact learning experiences, including internships with businesses and organizations. By agreement with Clarkson University, **graduates who successfully complete specific courses through this program may earn an M.B.A. with one year of graduate study** at Clarkson. Refer to the Business & Economics Department page for details.

## Learning Outcomes

The B.A. in Business is designed to produce graduates who can:

1. Successfully apply classroom knowledge to real-world experiences.

2. Demonstrate industry-appropriate communication skills and the ability to work effectively with diverse groups in a team environment.
3. Demonstrate the ability to adapt themselves to a changing business environment while encouraging others to do so as well.
4. Demonstrate the ability to amass, evaluate and interpret complex information to make effective business decisions.
5. Demonstrate the appropriate business norms and ethics, as well as mastery of the fundamental skills and knowledge required to successfully steward a business operation.

## Business Curriculum

### Required Core Courses (38 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-4720 Senior Seminar 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

*In addition, all Business students are strongly encouraged to take MAT 2030 MAT-2030 Probability & Statistics and MAT 1221 MAT-1221 Finite Mathematics to meet part of their General Education Curriculum requirements.*

## Social Entrepreneurship Concentration

### Required Concentration Courses (18 credits)

- CIS-1430 Spreadsheets 3 credits
- PSY-3345 The Psychology of Groups 3 credits
- BUS-4180 Leadership & Management of Nonprofit Organizations 3 credits
- BUS-4810 Internship in Business Management 1-12 credits (Students must complete a 6-credit internship.)
- BUS-4840 Social Entrepreneurship Capstone 3 credits

*Any of the above required concentration courses with no prerequisites may be taken any time after a student's sophomore year.*

**Total: 56 credits**

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Business (B.A.): Sport Management concentration

This program reflects the fact that sports today is as much about marketing events and refining a brand as it is about working with players and scheduling events - and that strong business skills are essential for successful careers in sport management. Students complete a core of business courses plus specific courses related to the business side of sports and recreation. An internship is required. **Students graduate with a B.A. in Business with a concentration in Sport Management.** Career opportunities range from managing professional teams and arenas to overseeing the marketing and finances of sports teams and organizations.

## Business Programs at JSC

The B.A. in Business is designed to provide students with the skills, knowledge and wisdom necessary to run their own business, be successful in an organization of their choosing and be prepared for graduate study. The program encompasses product and service planning, organizational structure, leadership, human resource management, marketing and financial management. Students engage in both classroom and high-impact learning experiences, including internships with businesses and organizations. By agreement with Clarkson University, **graduates who successfully complete specific courses through this program may earn an M.B.A. with one year of graduate study** at Clarkson. Refer to the Business & Economics Department page for details.

## Learning Outcomes

The B.A. in Business is designed to produce graduates who can:

1. Successfully apply classroom knowledge to real-world experiences.
2. Demonstrate industry-appropriate communication skills and the ability to work effectively with diverse groups in a team environment.
3. Demonstrate the ability to adapt themselves to a changing business environment while encouraging others to do so as well.
4. Demonstrate the ability to amass, evaluate and interpret complex information to make effective business decisions.
5. Demonstrate the appropriate business norms and ethics, as well as mastery of the fundamental skills and knowledge required to successfully steward a business operation.

## Business Curriculum

### Required Core Courses (38 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits

- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-4720 Senior Seminar 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

*In addition, all Business students are strongly encouraged to take MAT 2030 MAT-2030 Probability & Statistics and MAT 1221 MAT-1221 Finite Mathematics to meet part of their General Education Curriculum requirements.*

## Sport Management Concentration Curriculum (18 credits)

- AHS-4030 Psychology of Sports & Exercise 3 credits
- BUS-3420 Athletic Facility & Event Management 3 credits
- BUS-1350 Sport & Society, Sport Management Issues and Concepts 3 credits
- BUS-4320 Sport Promotion & Branding 3 credits
- BUS-4810 Internship in Business Management 1-12 credits (6 credits)

Total: 56 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Management (A.S.)

This program looks at the four major functions of a manager-planning, organizing, leading and controlling-and prepares students for first-line managerial positions. Students also have the business course base to continue in the baccalaureate business management program.

## Required Core Courses (29 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

## Electives (6 credits)

- 2 departmental courses from ACC, BUS, CIS, ECO or HTM disciplines.

Total: 35 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Minors

### Business Minor

This minor is available to non-Business majors only. All course choices and sequences should be discussed with an advisor in the Department of Business & Economics.

### Required Courses

- ACC-2121 Financial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- ECO-2020 Macroeconomics 3 credits

### Take 2 of the following courses:

- BUS-3050 Principles of Sales 3 credits
- BUS-3060 Consumer Behavior 3 credits
- BUS-3070 Public Relations 3 credits
- BUS-3110 Ski Area Management & Design 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3150 Production/Operations Management 3 credits
- BUS-3210 Advertising 3 credits
- BUS-3230 Financial Management 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-3310 Greening the Business Environment 3 credits
- BUS-3370 Professional Communication 3 credits
- BUS-3390 Career Planning & Management 3 credits
- BUS-3420 Athletic Facility & Event Management 3 credits

- BUS-1350 Sport & Society, Sport Management Issues and Concepts 3 credits
- BUS-3490 Leadership & Quality 3 credits
- BUS-4030 Marketing Research 3 credits
- BUS-4320 Sport Promotion & Branding 3 credits

Total: 25-26 credits

## Certificates

### Proficiency in Accounting Certificate

JSC's Certificate of Proficiency in Accounting is a flexible and convenient way to earn the additional credits required to meet Vermont licensing standards that took effect July 1, 2014, and sit for the national CPA exam. Classes may be taken on campus, online or, through JSC's External Degree Program, on weekends in Montpelier, Rutland, St. Albans or Winooski.

The program of study is tailored to each student's situation in order to amass the required 150 credit hours, including 42 credits in accounting-related courses. A person with a B.A. degree in Business would still need to accrue the required additional 30 credits, even if he or she already has the 42 credits in accounting-related courses.

A full-time student could complete the certificate in one year: In two semesters if only 30 credits are needed, or in two semesters plus the summer if 42 credits are needed. Students enrolled in the certificate program are eligible for financial aid.

**Students must complete the core business courses and the core accounting courses, at total of 43 credits, in order to earn the certificate of achievement in accounting.**

### Core Business Courses

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3230 Financial Management 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

Total Core Business Courses: 26 credits

### Core Accounting Courses

- ACC-2230 Federal Taxes 3 credits
- ACC-2210 Cost Accounting 3 credits

- ACC-2201 Intermediate Accounting I 4 credits
- ACC-2202 Intermediate Accounting II 4 credits
- ACC-4050 Auditing & Assurance Services 3 credits

Total Core Accounting Courses: 17 credits

## Small Business Management Certificate

The program provides owners, operators, and employers with the knowledge and skills necessary to organize and operate successful small businesses. The program emphasizes management functions rather than operational techniques.

### Required Courses

- ACC-2121 Financial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2210 Small Business Management 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-3131 Business Law I 3 credits

Total: 16 credits

## Distance Learning Programs

Distance Learning Programs at Johnson, which include both the External Degree Program (EDP) and JSC Online, are designed for those seeking an alternative to the on-campus experience and who are expecting the same challenging courses and the same prestigious degree as those enrolled in our traditional on-campus program.

EDP was built on a partnership between JSC and the Community College of Vermont (CCV) and their shared mission to serve adult learners throughout Vermont. This forty-year tradition continues by providing Vermonters with the opportunity to work with advisors at their local CCV locations while they complete their bachelor's degree through distance learning (DL) courses from Johnson. In addition to working face-to-face with their advisors, EDP students also have physical access to CCV and JSC campuses in order to access support services and resources.

JSC Online grew out of a desire to extend Johnson's Distance Learning Programs to students outside of Vermont. Because these students are geographically distributed, they need access to advising and other support services without coming to a campus. Subsequently, support for JSC Online students is provided through online and remote resources.

Students enrolled in Distance Learning Programs are generally restricted from participating in and/or gaining access to certain college activities, events, and facilities. They are eligible for certain student services related to their program such as advising, career planning, etc., as well as other student support services.

Support services available to distance learning students include but are not limited to:

- Academic advising
- Bookstore

- Disability services
- Financial aid
- Library
- Tutoring

Activities, events, and facilities not available to distance learning students:

- Campus housing
- College transportation services including the Badger Bullet Bus and Morrisville Shuttle
- Participation in campus-based clubs and organizations
- SHAPE Fitness & Athletics Center
- Student Government Association
- Varsity Athletics
- Wellness Center

### **EDP vs JSC Online**

The key differences between EDP and JSC Online are how students access advisors and resources, what types of courses the students can take, and the tuition model. The differences exist at the student level, not the course level. Subsequently, all Johnson DL courses are available to all EDP and JSC Online students. EDP students, however, are also eligible to take face-to-face campus courses, while JSC Online students are not.

EDP students pay tuition at standard in-state and out-of-state rates based on their residency status. JSC Online students living outside of Vermont are eligible for a scholarship that reduces their tuition to an in-state tuition rate and *applies only to online courses sponsored through Johnson*. The scholarship/in-state rates for out-of-state students do not apply to any face-to-face Johnson courses or to courses of any type taken from other Vermont State College institutions.

### **Refunds and Add/Drop/Withdrawal Policies**

Add/drop/withdrawal policies vary by institution. While students can add, drop, or withdraw from a course based on the deadlines of their home institution, the refund policy of the institution offering the course will apply. For example, if a student is taking a CCV course that has an earlier drop deadline than Johnson, the student can drop the course based on Johnson's deadlines but that may affect whether or not the student receives a refund of tuition.

### **External Degree Program**

Johnson's External Degree Program (EDP) serves adult students throughout Vermont who have already completed 60 or more credits of acceptable, college-level work. Each student works closely with an advisor who has an office at the student's local Community College of Vermont site or on campus at JSC. The advisor helps the student develop and carry out a plan to earn the remainder of the credits needed for a B.A. degree. A minimum of 30 credits must be earned while in the program.

Students can take courses in a variety of formats and at various locations, including: JSC courses held on Saturdays or Sundays once a month throughout Vermont, 15-week online courses, accelerated weekend and online courses in a 7-week format, courses on campus at Johnson State, and courses at other colleges.

**The following degree programs are available statewide through the External Degree Program. Additional programs are available to students who can attend classes on the JSC campus.**

- B.A. in Business (accounting or management concentrations)
- B.A. in Childhood Education (with Elementary and Special Education endorsement) \*See note below.
- B.A. in Interdisciplinary Studies (self-designed)
- B.A. in Professional Studies (self-designed)
- B.A. in Psychology (general psychology or pre-professional counseling concentrations)

- B.S. in Wellness & Alternative Medicine

\*All programs, except Childhood Education, are available entirely online as well as in the classroom or through a combination of online and classroom-based courses. The Childhood Education major requires courses in the student's final year that may necessitate weekly travel to the Johnson campus.

**For information on specific requirements, please refer to the departmental and General Education Curriculum sections of this catalog.**

### **JSC Online**

JSC Online allows students to complete selective majors via an entirely online format, and whether you live in Vermont or miles away from our Green Mountain state, you'll pay in-state rates! This is possible through a scholarship that effectively lowers the out-of-state tuition rate to in-state rates for online courses through Johnson. The in-state rate does not apply to any face-to-face JSC courses or to courses of any type taken from other Vermont State College institutions.

JSC Online offers 15-week, semester-long online courses and 7-week, accelerated online courses. This provides flexibility for students based on when they enter the program and provides options relative to work and personal commitments.

**The following degree programs are available through JSC Online.**

- B.A. in Business (accounting or management concentrations)
- B.A. in Childhood Education (with Elementary and Special Education endorsement) *\*See note below.*
- B.A. in Interdisciplinary Studies (self-designed)
- B.A. in Professional Studies (self-designed)
- B.A. in Psychology (general psychology or pre-professional counseling concentrations)
- B.S. in Wellness & Alternative Medicine

\*The Distance Learning B.A. in Childhood Education requires courses in the student's final year that may necessitate weekly travel to the Johnson campus.

**For information on specific requirements, please refer to the departmental and General Education Curriculum sections of this catalog.**

## **Education**

### **Faculty/Staff**

David McGough, *Professor, Interim Middle/Secondary Education and Foundations Program Director*

Kathleen Brinegar, *Associate Professor (sabbatical 2017-18)*

Audrey Hoffman, *Assistant Professor, Applied Behavioral Analysis Program Director*

Hannah Miller, *Assistant Professor, Childhood Education Program Co-Director*

Robert Schulze, *Assistant Professor, Department Chair, Childhood Education Program Co-Director, Licensure Officer*

Kathleen Light, *Placement Coordinator*

Steven Light, *Unified Arts Program Advisor*

Rebecca Pastor, *Licensure Office Coordinator*

Vicky Sanborn, *Staff Assistant*

The Education Department has a long and celebrated history of preparing teachers and providing advance study for working professionals. Our professors have the theoretical and practical background to help students become outstanding teachers and influential leaders in their field.

**Working as a teacher in a public school in Vermont requires a Level I Professional Educator's License with an endorsement in a specific discipline at a designated level.** The license is issued by the Vermont Agency of Education to candidates who successfully complete a Teacher Education Program and are recommended by their institution. Educators' licenses issued in Vermont are accepted by more than 40 other states, districts and territories through association with the National Association of State Directors of Teacher Education & Certification.

The JSC Education Department offers several Teacher Education Programs at the undergraduate and graduate levels. The undergraduate programs are:

- Childhood Education (B.A.), which provides licensure endorsement in both K-6 elementary education and K-8 special education. All Childhood Education majors complete a liberal arts and sciences endorsement concentration.
- Secondary Teacher Licensure Endorsement, which prepares graduates to teach **English, mathematics, science** or **social studies** in grades 7-12. Students must earn an accompanying bachelor's degree in their area of endorsement.
- Unified Arts Teacher Licensure Endorsement, which prepares graduates to teach **art, dance, music, physical education** or **theater arts** in grades PreK-12. Students must earn an accompanying bachelor's degree in their area of endorsement.

*Note: Acceptance into a Teacher Education Program at JSC requires a separate application.* Being accepted by Johnson State College, declaring a major or beginning a program of study does NOT constitute admission or acceptance into a Teacher Education Program.

## Accreditation

All Teacher Education Programs at JSC are accredited by the Vermont Standards Board of Professional Educators. The accreditation process assures that candidates who are recommended for licensure meet all state standards for the license and the endorsement.

Theoretical Framework & Learning Pursuits

Applying to a Teacher Education Program at JSC

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*The Education Department offers courses with an EDU designator. See full Course Descriptions. The department also offers an M.A. in Education; refer to the JSC Graduate Catalog for information. (To access this catalog, chose it from the drop-down menu at upper right.)*

## Majors & Concentrations

# Childhood Education (B.A.); with endorsement in Elementary & Special Education

The B.A. in Childhood Education prepares students to become teachers licensed in both Elementary Education (K-6) and Special Education (K-8). With careful planning, a full-time student can complete the degree and earn both licensure endorsements in just four years. Graduates who successfully complete the degree become candidates for a Level I Professional Educator's License issued by the Vermont Agency of Education. This license is required in order to work as a public school teacher in Vermont; it also is recognized and accepted by more than 40 other states, districts and territories.

Through courses and practicum experiences, students learn the theories, research, standards and practices that provide a solid foundation for educators who are passionate about teaching, inclusive and progressive in their practices, modern and up to date in their techniques, and committed to social equity and the delivery of education to diverse learners. Careful attention is given to the growth of children as individuals whose perceptions, interests, joys, strengths and challenges are formed within a community and through meaningful engagement with others.

Students who intend to teach in grades K-6 must declare Childhood Education as their academic major and apply to JSC's **Teacher Education Program in Inclusive Elementary Education** after completing their first education course. *Important:* Declaring a major in Childhood Education is not the same as being accepted into this Teacher Education Program; see Applying to a Teacher Education Program at JSC below.

Most courses must be taken in a specific order; students should check advisement forms, program evaluations and prerequisites for details. Students must earn a B- or better in all courses with an EDU designator.

Theoretical Framework & Learning Pursuits

Applying to a Teacher Education Program at JSC

Advancing through a Teacher Education Program at JSC

## Required Education Courses (63 credits)

- EDU-2360 Perspectives on Learning in a Diverse Society 3 credits
- EDU-2365 The Ecology of Human Experience: Development, Culture & Identity 3 credits
- EDU-2370 The Contemporary School 3 credits
- EDU-3460 Literature & Media for Children & Youth 3 credits
- EDU-3265 Instructional Dynamics for the Elementary Educator - Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Lessons; Part I: Language, Literacy, & Literature for Diverse Learners 3 credits
- EDU-3266 Instructional Dynamics for the Elementary Educator - Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Lessons; Part II: Numeracy & Quantitative Reasoning for Diverse Learners 3 credits
- EDU-3311 Foundations of Inclusive Practices 3 credits
- EDU-3440 Teaching Toward Democracy 3 credits
- EDU-3100 Literacy Intervention, Assessment & Strategies 3 credits
- EDU-3025 Evaluating Characteristics of Diverse Learners 3 credits
- EDU-4630 Integrated Elementary Methods Practicum: Intention, Knowledge & Presence 6 credits
- EDU-3125 Technology for Integrating Instruction 3 credits
- EDU-4640 Special Education Practices & Procedures 6 credits
- EDU-4820 Elementary Student Teaching 12 credits

- EDU-4051 Strategies to Promote Inclusive Practices 3 credits
  - EDU-4650 Capstone & Thesis Seminar 3 credits
- AND**
- EDU-TEW1 Teacher Education Workshop 1: Introduction to Teacher Education 0 credits
  - EDU-TEW2 Teacher Education Workshop 2: Application for Practicum I 0 credits
  - EDU-TEW3 Teacher Education Workshop 3: Application for Practicum II 0 credits
  - EDU-TEW4 Teacher Education Workshop 4: Application for student teaching 0 credits
  - EDU-TEW5 Teacher Education Workshop 5: Application for a Verification Check 0 credits

## Required Elementary Education Liberal Arts & Sciences Concentration (30-31 credits)

In addition to the Education courses listed above, all Childhood Education majors must complete the Elementary Education Liberal Arts & Sciences Concentration. This concentration is divided into two areas: Quantitative & Causative Studies (9-10 credits) and Humanities & Cultural Studies (21 credits). Students must earn a cumulative GPA of 3.0 in this concentration to be eligible for a Level 1 Professional Educator's License.

### Quantitative & Causative Studies (9-10 credits)

#### Earth Science (choose 1 course)

- ENV-1050 Introduction to Earth Science 4 credits
- ENV-1040 Introduction to Oceanography 3 credits
- ENV-1090 Introduction to Weather, Climate & Climate Change 3 credits
- PHY-1041 Physics I 4 credits

#### Geometric Design

- MAT-3040 Geometrical Reasoning 3 credits

#### Engineering Science

- EDU-3445 Applied Mechanics I 3 credits

### Humanities & Cultural Studies (21 credits)

#### U.S. History (choose 1 course)

- HIS-1211 American History I 3 credits
- HIS-1212 American History II 3 credits
- HIS-2210 Women in U.S. History 3 credits

- HIS-3080 Colonial America: History & Life 3 credits
- HIS-3141 History of the United States in the 20th Century I 3 credits
- HIS-3142 History of the United States in the 20th Century II 3 credits

### World History (choose 1 course)

- HIS-1111 World History I 3 credits
- HIS-1112 World History II 3 credits

### Literature

- ENG-1310 Introduction to Literature 3 credits

### Civics (choose 1 course)

- POS-1010 Introduction to Political Science 3 credits
- POS-1020 American Politics & Government 3 credits
- POS-1030 Comparative Government 3 credits

### Culture, Geography & Economics

- EDU-3425 GeoCultural Studies 3 credits

### Visual Art (choose 1 course)

- ART-1011 Drawing I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2211 Painting I 3 credits
- ART-2301 Photography I 3 credits

### Performance Art (choose 1 course)

- DAN-1010 Fundamentals of Dance 3 credits
- DAN-2010 Folk Dance 3 credits
- DAN-3010 The Renaissance Spirit 3 credits
- DAN-3180 Folk Dance II 3 credits
- DAN-3210 The Emperor Ain't Naked: A History of Western European Fashion & Social Dance from the Mid-14th Century to the Early 20th Century 3 credits
- MUS-1030 Music Fundamentals 3 credits
- THA-1041 Introduction to Theater Arts 3 credits

Total: 93-94 credits

## A Note About General Education Requirements

All undergraduates must complete the JSC General Education Curriculum. Students who thoughtfully select courses for the Elementary Education Liberal Arts & Sciences Concentration will be able to meet the "Integrative Perspectives" component of the General Education Curriculum without taking additional courses. In addition, Childhood Education majors are encouraged to take the following courses to meet the "Foundational Skills" component of the General Education Curriculum in order to avoid the need to take additional courses later in their program.

### Written Expression (6 credits)

- ENG-1071 College Writing 3 credits \* **OR**  
for EDP students: ENG-1061, English Composition\* (3 credits; shared course in VSC)  
**AND**
- ENG-1072 Exposition & Analysis 3 credits **OR**
- for EDP students: ENG-1220 Rhetorical Expression 3 credits  
*\*Students who are not required to take ENG-1071 or ENG-1061 due to placement scores may complete the following to meet these requirements: **Campus-based students** may substitute ENG 3999 Writing Proficiency Exam or ENG 2005 The Self-Sufficient Writer; **EDP students** may substitute EDP-3999, the Challenge Exam.*

### Mathematics

- MAT-1080 Introduction to Quantitative Reasoning 3 credits  
Or the Quantitative Reasoning Assessment (QRA) and a Math elective
- MAT-2030 Probability & Statistics 3 credits

### Natural Science with Lab

- BIO-1210 Introduction to Biology 4 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Teaching Licensure Programs

### Secondary Teacher License Endorsement

Johnson State College offers Secondary Teacher Education Programs that prepare students to teach in their area of endorsement - **English, mathematics, science** or **social studies** -- to students in grades 7-12. Graduates who successfully complete one of these programs become candidates for a Level I Professional Educator's License issued by the Vermont Agency of Education. This license is required in order to work as a public school teacher in Vermont; it also is recognized and accepted by more than 40 other states, districts and territories.

All students seeking Secondary Teacher Licensure Endorsement must:

- Successfully complete all Required Teacher Education Core Courses;
- Successfully complete the Required Secondary Education Core Courses ;
- Select one of the four Secondary Education Endorsement Areas and successfully complete an approved major for that endorsement -- including all requirements for the bachelor's degree and the General Education and Graduation Requirements -- with a cumulative 3.0 GPA or better and a 3.0 GPA in the major; and
- Successfully complete the Required Content-Area Courses for their chosen area of endorsement.

**With careful planning, these requirements can be met for most programs within a four-year plan of study.** Most courses must be taken in a specific order; students should check advisement forms, program evaluations and prerequisites for details. Students must earn a B- or better in all courses marked with an asterisk (\*). Each Teacher Education Workshop (TEW) is graded as Pass/No Pass.

Theoretical Framework & Learning Pursuits

Applying to a Teacher Education Program at JSC

Advancing through a Teacher Education Program at JSC

## 1. Required Teacher Education Core Courses

- EDU-TEW1 Teacher Education Workshop 1: Introduction to Teacher Education 0 credits
- EDU-TEW2 Teacher Education Workshop 2: Application for Practicum I 0 credits
- EDU-TEW3 Teacher Education Workshop 3: Application for Practicum II 0 credits
- EDU-TEW4 Teacher Education Workshop 4: Application for student teaching 0 credits
- EDU-TEW5 Teacher Education Workshop 5: Application for a Verification Check 0 credits
- EDU-2360 Perspectives on Learning in a Diverse Society 3 credits \*
- EDU-2365 The Ecology of Human Experience: Development, Culture & Identity 3 credits \*
- EDU-2370 The Contemporary School 3 credits \*
- EDU-3311 Foundations of Inclusive Practices 3 credits \*
- EDU-3440 Teaching Toward Democracy 3 credits \*
- EDU-4650 Capstone & Thesis Seminar 3 credits \*

Total: 18 credits

## 2. Required Secondary Education Core Courses

- EDU-3140 Partnering with the Adolescent Learner to Promote Student Engagement 4 credits
- EDU-3360 Promoting Inventive Thinking: Integrating Multimodal Literacy Across the Curriculum 3 credits
- EDU-4130 Implementing Content Specific Methods in a Secondary Classroom 4 credits
- EDU-4850 Secondary Education Student Teaching 12 credits

### 3. Required Major for Endorsement Area

In addition to the preceding courses, students must successfully complete all Required Content-Area Courses **AND** a bachelor's degree in a major approved for their area of endorsement, as specified below.

Area of Endorsement	Approved Major(s)
<b>English Education</b> See Required Content-Area Courses for this endorsement below (Section 4).	B.F.A. in Creative Writing or B.A. in English
<b>Mathematics Education</b> See Required Content-Area Courses for this endorsement below (Section 4).	B.S. in Mathematics
<b>Science Education</b> See Required Content-Area Courses for this endorsement below (Section 4).	B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Health & Exercise Science, B.S. in Health Sciences: Physical Education, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy
<b>Social Studies Education</b> See Required Content-Area Courses for this endorsement below (Section 4).	B.A. in History or B.A. in Political Science

### 4. Required Content Courses for Area of Endorsement

In addition to successfully completing an approved *major or 30-credit concentration* for their area of endorsement, students must take the *content-area courses* required for their area of endorsement. Some of these courses may meet requirements for the major as well. With the approval of the Secondary Education Program Director, appropriate course substitutions may be permitted.

#### English Education: Required Content-Area Courses

- EDU-3032 Language, Culture, Literature, & Education 3 credits
- EDU-3100 Literacy Intervention, Assessment & Strategies 3 credits
- ENG-1310 Introduction to Literature 3 credits
- ENG-3435 Practical Grammar 3 credits
- ENG-3565 Shakespeare 3 credits
- ENG-4150 Literary Criticism & Theory 3 credits

Take 3 of the following courses:

- ENG-2172 World Literature II 3 credits

- ENG-2171 World Literature I 3 credits
- ENG-2281 Survey of English Literature I 3 credits
- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENG-2321 Survey of American Literature I 3 credits
- ENG-2322 Survey of American Literature II 3 credits
- ENG-2510 Women & Literature 3 credits

Take 1 of the following courses:

- ENG-2101 Creative Writing 3 credits
- ENG-3120 Poetry Workshop 3 credits
- ENG-3130 Fiction Workshop 3 credits
- ENG-4110 The Form & Theory of Fiction 3 credits
- ENG-4120 The Form & Theory of Poetry 3 credits

Take 1 of the following courses:

- ENG-3140 The Creative Essay 3 credits
- ENG-4130 The Form & Theory of Nonfiction 3 credits

Take 2 of the following literature courses:

- ENG-3270 Myth & Myth Making 3 credits
- ENG-3320 The English Novel 3 credits
- ENG-3345 Contemporary Canadian Literature 3 credits
- ENG-3380 British Romantic Literature 3 credits
- ENG-3390 Literature of the Grotesque 3 credits
- ENG-3395 Satire in Literature 3 credits
- ENG-3435 Practical Grammar 3 credits
- ENG-3480 Modern Literature 3 credits
- ENG-3510 Contemporary Literature 3 credits
- ENG-3520 American Poetry 3 credits
- ENG-3525 Victorian Literature 3 credits
- ENG-3530 The American Novel 3 credits
- ENG-3565 Shakespeare 3 credits
- ENG-3580 African American Literature 3 credits
- ENG-4720 Seminar in Literature 3 credits

## Mathematics Education: Required Content-Area Courses

In addition to successfully completing B.S. in Mathematics, students must take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Secondary Education Program Director, appropriate course substitutions may be permitted.

- INT-3150 Gödel, Escher, Bach: An Eternal Golden Braid 3 credits (A required course for the math major)
- MAT-1531 Calculus I 4 credits
- MAT-2020 Mathematical Reasoning 3 credits
- MAT-2030 Probability & Statistics 3 credits
- MAT-2532 Calculus II 4 credits
- MAT-2533 Calculus III 4 credits (An elective in the math major)
- MAT-3040 Geometrical Reasoning 3 credits
- MAT-3210 Linear Algebra 3 credits
- MAT-3240 Probability Theory with Statistics 3 credits
- MAT-3310 Differential Equations 3 credits (An elective in the math major)
- MAT-4130 Abstract Algebra 3 credits
- MAT-4140 Geometry 3 credits
- MAT-4930 Senior Project in Mathematics 3 credits (A capstone requirement for the math major)

## Science Education: Required Content-Area Courses

In addition to successfully completing one of the approved majors for this endorsement (the B.F.A. in Creative Writing, B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Health & Exercise Science, B.S. in Health Sciences: Physical Education, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment or B.S. in Environmental Science: Policy & Advocacy, students must take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Secondary Education Program Director, appropriate course substitutions may be permitted.

- CHE-1031 General Chemistry I 4 credits
- ENV-1050 Introduction to Earth Science 4 credits
- PHY-1041 Physics I 4 credits

Take 1 of the following courses:

- BIO-1210 Introduction to Biology 4 credits
- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits

Take 1 of the following courses:

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-2340 Fundamentals of Ecology 4 credits
- BIO-3260 Limnology 4 credits
- ENV-3130 Environmental Geology 4 credits

## Social Studies Education: Required Content-Area Courses

In addition to successfully completing either the B.A. in History or the B.A. in Political Science, students must take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Secondary Education Program Director, appropriate course substitutions may be permitted.

- HIS-1111 World History I 3 credits
- HIS-1112 World History II 3 credits
- HIS-1211 American History I 3 credits
- HIS-1212 American History II 3 credits

Take 1 of the following courses:

- POS-1010 Introduction to Political Science 3 credits
- POS-1020 American Politics & Government 3 credits

Take 2 of the following courses:

- ANT-1010 Introduction to Cultural Anthropology 3 credits
- GEO-1010 Introduction to Geography 3 credits
- HUM-3125 Religions of the World 3 credits
- POS-1030 Comparative Government 3 credits
- POS-2040 International Relations 3 credits
- POS-3230 Third World Politics 3 credits

Take 2 of the following courses:

- HIS-3420 French Revolution 3 credits
- INT-3210 The Holocaust: An Interdisciplinary Approach 3 credits
- POS-1040 African-American History & Politics 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3070 Terrorism, Religion & the Nation-State 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits

Take 1 of the following courses:

- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits
- POS-2050 International Economics & Politics 3 credits

**Important:**

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

**Unified Arts Teacher License Endorsement**

Johnson State College offers Unified Arts Teacher Education Programs that prepare students to teach in their area of endorsement -- **art, dance, music, physical education or theater arts** -- to students in grades PreK-12. Graduates who successfully complete one of these programs become candidates for a Level I Professional Educator's License issued by the Vermont Agency of Education. This license is required in order to work as a public school teacher in Vermont; it also is recognized and accepted by more than 40 other states, districts and territories.

All students seeking Unified Arts teaching licensure must:

- Successfully complete all Required Teacher Education Core Courses;
- Successfully complete the Required Unified Arts Education Core Courses;
- Select one of the five Unified Arts Endorsement Areas and successfully complete an approved major for that endorsement -- including all requirements for the bachelor's degree and the General Education and Graduation Requirements -- with a cumulative 3.0 GPA or better and a 3.0 GPA in the major; and
- Successfully complete the Required Content-Area Courses for their chosen area of endorsement.

**With careful planning, these requirements can be met for most programs within a four-year plan of study.** Most courses must be taken in a specific order; students should check advisement forms, program evaluations and prerequisites for details. Students must earn a B- or better in all courses marked with an asterisk (\*). Each Teacher Education Workshop (TEW) is graded as Pass/No Pass.

Theoretical Framework & Learning Pursuits

Applying to a Teacher Education Program at JSC

Advancing through a Teacher Education Program at JSC

## 1. Required Teacher Education Core Courses

- EDU-TEW1 Teacher Education Workshop 1: Introduction to Teacher Education 0 credits
- EDU-TEW2 Teacher Education Workshop 2: Application for Practicum I 0 credits
- EDU-TEW3 Teacher Education Workshop 3: Application for Practicum II 0 credits
- EDU-TEW4 Teacher Education Workshop 4: Application for student teaching 0 credits
- EDU-TEW5 Teacher Education Workshop 5: Application for a Verification Check 0 credits
- EDU-2360 Perspectives on Learning in a Diverse Society 3 credits \* (not required for Music Education majors)
- EDU-2365 The Ecology of Human Experience: Development, Culture & Identity 3 credits \*
- EDU-2370 The Contemporary School 3 credits \*
- EDU-3311 Foundations of Inclusive Practices 3 credits \*
- EDU-3440 Teaching Toward Democracy 3 credits \*
- EDU-4650 Capstone & Thesis Seminar 3 credits \*

Total: 18 credits

## 2. Required Unified Arts Core Courses

- EDU-3112 Instructional Dynamics for the Elementary Educator: Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Learners; Part III: Unified Arts for Diverse Learners 3 credits
- EDU-4310 The Art of Experience in Education: Designing for Engagement & Accomplishment through the Unified Arts 3 credits

### 3. Required Major for Unified Arts Endorsement Area

In addition to the preceding courses, students must successfully complete all Required Content-Area Courses **AND** a bachelor's degree in a major approved for their area of endorsement, as specified below.

Area of Endorsement	Approved Major(s)
Art Education	B.A. in Art or B.F.A. in Studio Arts
Dance Education	<i>Major arranged in consultation with the Unified Arts Education Coordinator</i>
Music Education	B.M.E. in Music Education
Physical Education	B.S. in Health Sciences: Physical Education
Theater Arts Education	B.A. in Theater & Drama

### 4. Required Content Courses for Endorsement Area

In addition to successfully completing an approved *major* for their area of endorsement, students must take the *content-area courses* required for their area of endorsement. Some of these courses may meet requirements for the major as well. With the approval of the Unified Arts Program Director, appropriate course substitutions may be permitted.

#### Art Education: Required Content-Area Courses

In addition to successfully completing either the B.A. in Art or the B.F.A. in Studio Arts, students must take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Unified Arts Education Program Director, appropriate course substitutions may be permitted.

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-1140 Design I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits
- ART-3032 Advanced Drawing 3 credits
- EDU-4812 Unified Arts Student Teaching 12 credits

#### Additional requirement for B.A. in Art majors:

- ARH-4720 Seminar in Contemporary Art Issues 3 credits

## Additional requirement for B.F.A. in Studio Arts majors:

- ART-4730 B.F.A. Seminar 3 credits

## Dance Education: Required Content-Area Courses

Students seeking this endorsement consult with the Unified Arts Education Program Director to select an appropriate major. They also must take the following content-area courses, some of which may meet requirements for the major as well. With the approval of the Unified Arts Education Program Director, appropriate course substitutions may be permitted.

- DAN-1010 Fundamentals of Dance 3 credits
- DAN-2040 Beginning Tap Dance 2 credits
- DAN-3020 Intermediate Ballet: Technique & History 3 credits
- DAN-3030 Improvisation/Composition: Intermediate/Advanced Level 4 credits
- DAN-3032 Body Awareness II 3 credits
- DAN-3112 Intermediate Modern Dance: Technique & History 3 credits
- DAN-3130 Jazz Dance 3 credits
- DAN-3180 Folk Dance II 3 credits
- DAN-4130 Advanced Ballet/Modern Dance: Technique & History 3 credits
- EDU-4850 Secondary Education Student Teaching 12 credits

## Take 1 of the following courses:

- DAN-3010 The Renaissance Spirit 3 credits
- DAN-3210 The Emperor Ain't Naked: A History of Western European Fashion & Social Dance from the Mid-14th Century to the Early 20th Century 3 credits

## Physical Education: Required Content-Area Courses

In addition to successfully completing the B.S. in Health Sciences: Physical Education, students must take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Unified Arts Education Program Director, appropriate course substitutions may be permitted.

- AHS-1010 Contemporary Health Issues 3 credits
- AHS-3120 Kinesiology 3 credits
- AHS-3230 Physiology of Exercise 4 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- DAN-1010 Fundamentals of Dance 3 credits
- OER-2140 Ropes Course Leadership 2 credits
- PED-1150 Foundations of Physical Education 3 credits
- PED-2040 Team Sports 2 credits
- PED-2110 Individual, Dual & Lifetime Activities 2 credits
- PED-3120 Measurement & Evaluation 3 credits
- PED-3070 Methods of Teaching Elementary Physical Education 4 credits
- PED-3140 Methods of Teaching Secondary School Physical Education 4 credits

## Music Education: Required Content-Area Courses

In addition to successfully completing the B.A. in Music Performance & Music Education , students must choose a concentration and take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Unified Arts Education Program Director, appropriate course substitutions may be permitted.

- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1052 Keyboard Harmony II 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1062 Ear Training II 1 credits
- MUS-1120 Applied Music Lessons 0.5 credits (2 credits) (in violin, viola, cello)
- MUS-1231 Music Theory I 3 credits
- MUS-1232 Music Theory II 3 credits
- MUS-2023 Ear Training III 1 credits
- MUS-2024 Ear Training IV 1 credits
- MUS-2053 Keyboard Harmony III 1 credits
- MUS-2054 Keyboard Harmony IV 1 credits
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (4 credits)
- MUS-2250 Introduction to Music Education 2 credits
- MUS-2313 Music Theory III 3 credits
- MUS-2314 Music Theory IV 3 credits
- MUS-2361 Instrumental Techniques I 3 credits
- MUS-2362 Instrumental Techniques II 3 credits
- MUS-3031 History of Western Music I 3 credits
- MUS-3032 History of Western Music II 3 credits
- MUS-3060 Vocal Pedagogy 2 credits
- MUS-3080 Choral Literature 2 credits
- MUS-3140 Arranging/Orchestration 3 credits
- MUS-3160 Elementary School Music Methods 3 credits
- MUS-3210 Secondary School Music Methods 3 credits
- MUS-3215 Technology for the Music Classroom 3 credits
- MUS-3270 Choral Methods 3 credits
- MUS-3330 Worlds of Music 3 credits
- MUS-3401 Conducting I 3 credits
- MUS-3402 Conducting II 3 credits
- MUS-3510 Junior Recital 1 credits

## Applied Music Lessons: 6 credits

(6 credits in one primary area: vocal or instrumental)

- MUS-1120 Applied Music Lessons 0.5 credits (must include 1 credit in strings)
- MUS-1120L Applied Music Lesson Lab 0 credits
- MUS-3240 Applied Music Lessons 1 credits
- MUS-4030 Applied Music Lessons 1.5 credits

## Theater Arts: Required Content-Area Courses

In addition to successfully completing the B.A. in Theater & Drama, students must take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Unified Arts Education Program Director, appropriate course substitutions may be permitted.

- THA-1040 Interpreting Contemporary Dramatic Literature 3 credits
- THA-1041 Introduction to Theater Arts 3 credits
- THA-1111 Stagecraft 3 credits
- THA-2035 Costume Construction & Stage Makeup 3 credits
- THA-2040 Performance & Production Lab 0 or 3 credits
- THA-2121 Acting I 3 credits
- THA-2121L Acting I Lab 1 credits
- THA-2122 Acting II 3 credits
- THA-3010 Shakespeare: On the Stage & On the Page 3 credits
- THA-3030 Theater for Young Audiences 3 credits
- THA-3110 Dramatic Literature: Classical/Modern 3 credits
- THA-3123 Acting III 3 credits
- THA-3130 Introduction to Design: Costume, Scenic, and Stage Lighting 3 credits
- THA-3140 Theater History 3 credits
- THA-3150 Introduction to Stage Management 3 credits
- THA-3210 Introduction to Directing 4 credits
- THA-4720 Senior Project in Theater 3 credits
- EDU-4850 Secondary Education Student Teaching 12 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Environmental & Health Sciences

### Faculty/Staff

Tania Bacchus, *Professor*

Elizabeth Dolci, *Professor, Department Chair*

Robert Genter, *Professor*

Leslie Kanat, *Professor*

Brad Moskowitz, *Professor*

Karen Uhlendorf, *Professor*

Hans Haverkamp, *Associate Professor*

John Pellerin, *Associate Professor*

Amy Welch, *Associate Professor*

Shona Sladyk, *Administrative Assistant*

The Environmental & Health Sciences Department offers a range of focus areas that prepare students for careers in such fields as medicine and medical research, the natural sciences, environmental policy, health and physical education, outdoor education, and resource management. Research and learning opportunities are on par with those at leading academic and research institutions, with students working alongside professors in laboratory and the field, co-authoring papers and presenting at professional conferences. All programs in this department focus on teamwork and high-impact experiential learning.

*The Department of Environmental & Health Sciences offers courses with the following designators: AHS (allied health science), BIO (biology), CHE (chemistry), ENV (environmental science), GEY (geology), OER (outdoor education and recreation), PED (physical education), PHY (physics) and SCI (science). See full Course Descriptions.*

## Majors & Concentrations

### Biology (B.S.): General Biology concentration

This program focuses on the core sub-disciplines of biology, including molecular and cellular biology, organismal biology, ecology and evolution. Students explore the world in the field and in laboratory, working side by side with professors and peers conducting research and benefiting from advanced learning opportunities typically reserved for graduate-level students. **Students graduate with a B.S. in Biology concentrating in General Biology.** Graduates who also successfully complete the required education courses for secondary licensure become candidates for a license to teach science in grades 7-12.

### Biology Programs at JSC

The study of biology serves all college majors and professionals by preparing them to understand and deal with the many biological concepts, issues and problems in their fields. Our program is designed to introduce the core sub-disciplines of biology and to offer advanced studies in organismal, human, molecular and environmental biology. Microbiologists, physiologists, zoologists, molecular biologists, field naturalists, ecologists, marine biologists, agricultural scientists, foresters, wildlife managers, physicians, therapists, nutritionists, toxicologists, science writers and teachers are a sample of the professionals who commonly begin as biology majors.

Students in the biology program explore outdoor laboratories ranging from the College's Babcock Nature Preserve to areas as diverse as tropical ecosystems and the American west. On campus, our program is supported by teaching laboratories, a greenhouse, an artificial stream laboratory, a cellular and molecular laboratory, and extensive herbarium and vertebrate museum collections.

The research activities of the faculty include understanding cell behavior at the molecular level, classification of plants, improving teaching in biology, vertebrate ecology and studying environmental pollution.

The B.S. in Biology is designed for students who desire a comprehensive training in the life sciences leading to areas in education, research or medicine. As noted above, graduates who also complete the required education courses for secondary licensure become candidates for a license to teach science in grades 7-12.

## Learning Outcomes

- **Demonstrate basic knowledge:** Students will define and explain the major concepts in the biological sciences; for example, the relationship between structure and function at all levels of organization.
- **Apply the scientific method:** Students will incorporate the major steps in the scientific method to design and carry out research studies and to test hypotheses.

- **Communicate in Science:** a) Students will communicate at a scientific level in writing and b) Students will communicate at a scientific level in oral presentations.
- **Develop technical skills:** Students will practice proper usage of scientific instrumentation and will improve techniques both in the laboratory and in the natural environment.
- **Apply quantitative analysis and mathematical reasoning:** Students will apply quantitative analysis to interpret biological data.
- **Read and analyze scientific information:** Students will read, understand, and incorporate scientific literature in their writing.
- **Discuss the relationships between science and society:** Students will integrate current biological evidence into discussion of global challenges.

## Biology Curriculum (42 credits)

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits \*+
- BIO-4810 Internship in Biology 1-12 credits **OR**
- BIO-4920 Senior Thesis 3 credits
- CHE-1031 General Chemistry I 4 credits \*
- CHE-1032 General Chemistry II 4 credits \*
- CHE-3111 Organic Chemistry I 4 credits \*
- CHE-3112 Organic Chemistry II 4 credits \*
- ENV-2210 Current Topics in Science 1 credits
- MAT-1531 Calculus I 4 credits \*
- PHY-1041 Physics I 4 credits \*
- PHY-1042 Physics II 4 credits \*

*\* These courses also fulfill requirements in the Environmental Science, Health Sciences, Outdoor Education and Wellness & Alternative Medicine programs.*

## General Biology Concentration

### Required Concentration Courses (8 credits)

- BIO-2340 Fundamentals of Ecology 4 credits
- BIO-3220 Genetics 4 credits

Electives (choose at least 1 from each set):

#### Set 1: Mathematics

- MAT-2030 Probability & Statistics 3 credits

- MAT-2532 Calculus II 4 credits

## Set 2: Cell/Molecular Biology

- BIO-3125 Biological Chemistry 4 credits
- BIO-3130 Cellular Biology: A Molecular Approach 4 credits \*
- BIO-3140 Microbiology 4 credits \*

## Set 3: Organismal Biology

- BIO-2011 Human Anatomy & Physiology I 4 credits
- BIO-2012 Human Anatomy & Physiology II 4 credits
- BIO-2145 Plant Biology 4 credits
- BIO-2310 Invertebrate & Vertebrate Zoology 4 credits
- BIO-3160 Animal Behavior 4 credits
- BIO-3170 Mammalogy 4 credits
- BIO-3320 Ornithology 4 credits

## Set 4: Ecology/Evolution

- BIO-3260 Limnology 4 credits
- BIO-3280 Environmental Toxicology 4 credits \*
- BIO-3290 Conservation Biology 3 credits \*

**Total: 65-66 credits**

*\* These courses also fulfill requirements in the Environmental Science, Health Sciences, Outdoor Education and Wellness & Alternative Medicine programs.*

*+ These courses also fulfill the General Education Curriculum requirements.*

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Biology (B.S.): Pre-Medical concentration

This program prepares students for a variety of positions in medicine, science and research as well as admission to medical school. In addition to core biology courses and labs (including physics, calculus, and general and organic chemistry), students take upper-level electives in anatomy and physiology, pharmacology, nutrition, genetics, microbiology, kinesiology and related topics. **Students graduate with a B.S. in Biology with a concentration in Pre-Medical Biology.** Graduates who successfully complete the required education courses for secondary licensure become candidates for a license to teach science in grades 7-12.

## Biology Programs at JSC

The study of biology serves all college majors and professionals by preparing them to understand and deal with the many biological concepts, issues and problems in their fields. Our program is designed to introduce the core sub-disciplines of biology and to offer advanced studies in organismal, human, molecular and environmental biology. Microbiologists, physiologists, zoologists, molecular biologists, field naturalists, ecologists, marine biologists, agricultural scientists, foresters, wildlife managers, physicians, therapists, nutritionists, toxicologists, science writers and teachers are a sample of the professionals who commonly begin as biology majors.

Students in the biology program explore outdoor laboratories ranging from the College's Babcock Nature Preserve to areas as diverse as tropical ecosystems and the American west. On campus, our program is supported by teaching laboratories, a greenhouse, an artificial stream laboratory, a cellular and molecular laboratory, and extensive herbarium and vertebrate museum collections.

The research activities of the faculty include understanding cell behavior at the molecular level, classification of plants, improving teaching in biology, vertebrate ecology and studying environmental pollution.

The B.S. in Biology is designed for students who desire a comprehensive training in the life sciences leading to areas in education, research or medicine. As noted above, graduates who also complete the required education courses for secondary licensure become candidates for a license to teach science in grades 7-12.

## Learning Outcomes

- **Demonstrate basic knowledge:** Students will define and explain the major concepts in the biological sciences; for example, the relationship between structure and function at all levels of organization.
- **Apply the scientific method:** Students will incorporate the major steps in the scientific method to design and carry out research studies and to test hypotheses.
- **Communicate in Science:** a) Students will communicate at a scientific level in writing and b) Students will communicate at a scientific level in oral presentations.
- **Develop technical skills:** Students will practice proper usage of scientific instrumentation and will improve techniques both in the laboratory and in the natural environment.
- **Apply quantitative analysis and mathematical reasoning:** Students will apply quantitative analysis to interpret biological data.
- **Read and analyze scientific information:** Students will read, understand, and incorporate scientific literature in their writing.
- **Discuss the relationships between science and society:** Students will integrate current biological evidence into discussion of global challenges.

## Biology Curriculum (42 credits)

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits

- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits \*+
- BIO-4810 Internship in Biology 1-12 credits **OR**
- BIO-4920 Senior Thesis 3 credits
- CHE-1031 General Chemistry I 4 credits \*
- CHE-1032 General Chemistry II 4 credits \*
- CHE-3111 Organic Chemistry I 4 credits \*
- CHE-3112 Organic Chemistry II 4 credits \*
- ENV-2210 Current Topics in Science 1 credits
- MAT-1531 Calculus I 4 credits \*
- PHY-1041 Physics I 4 credits \*
- PHY-1042 Physics II 4 credits \*

*\* These courses also fulfill requirements in the Environmental Science, Health Sciences, Outdoor Education and Wellness & Alternative Medicine programs.*

## Pre-Medical Concentration Curriculum

Take at least 16 credits from the following:

- AHS-3050 Introduction to Pharmacology 3 credits
- AHS-3230 Physiology of Exercise 4 credits
- AHS-3120 Kinesiology 3 credits
- BIO-2011 Human Anatomy & Physiology I 4 credits
- BIO-2012 Human Anatomy & Physiology II 4 credits
- BIO-2310 Invertebrate & Vertebrate Zoology 4 credits
- BIO-3125 Biological Chemistry 4 credits
- BIO-3130 Cellular Biology: A Molecular Approach 4 credits
- BIO-3140 Microbiology 4 credits
- BIO-3180 Nutrition 3 credits
- BIO-3220 Genetics 4 credits
- MAT-2030 Probability & Statistics 3 credits
- MAT-2532 Calculus II 4 credits

**Total: 58 credits (73 with recommended courses below)**

## Additional Recommended Courses (15 credits)

Medical schools generally look for students who have a solid education in the liberal arts. Courses in humanities and the social sciences are strongly recommended, including the following.

- PSY-1010 Introduction to Psychology 3 credits
- PSY-3330 Psychology of Addictions 3 credits
- PSY-4010 Biological Psychology 3 credits

- SOC-1010 Introduction to Sociology 3 credits
- SOC-3060 Sexuality & Intimacy 3 credits

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Biology: Field Naturalist (B.A.)

The B.A. in Biology: Field Naturalist is designed for students who wish to pursue meaningful careers as field scientists, naturalists, or researchers. Students learn the skills to work in the field for private, not-for-profit, local, state, and federal governments and organizations. Field naturalists have a broad knowledge of ecology, organismal biology, field geology and soils, environmental assessment, conservation biology, and wildlife management. Field naturalists can effectively communicate technical scientific information to a broad range of professional and lay audiences including the general public, planners and regulators, and government officials.

## Learning Outcomes

- **Demonstrate basic knowledge:** Students will define and explain the major concepts in the biological sciences; for example, the relationship between structure and function at all levels of organization.
- **Apply the scientific method:** Students will incorporate the major steps in the scientific method to design and carry out research studies and to test hypotheses.
- **Communicate in Science:** a) Students will communicate at a scientific level in writing and b) Students will communicate at a scientific level in oral presentations.
- **Develop technical skills:** Students will practice proper usage of scientific instrumentation and will improve techniques both in the laboratory and in the natural environment.
- **Apply quantitative analysis and mathematical reasoning:** Students will apply quantitative analysis to interpret biological data.
- **Read and analyze scientific information:** Students will read, understand, and incorporate scientific literature in their writing.
- **Discuss the relationships between science and society:** Students will integrate current biological evidence into discussion of global challenges.

## Required Core Courses

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits +
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits \* +

- BIO-2145 Plant Biology 4 credits
- BIO-2310 Invertebrate & Vertebrate Zoology 4 credits
- BIO-2340 Fundamentals of Ecology 4 credits \*
- CHE-1055 General Chemistry, Organic Chemistry & Biochemistry 4 credits \*
- ENV-1050 Introduction to Earth Science 4 credits \* +
- ENV-1110 Introduction to Environmental Problems 3 credits \*
  
- ENV-2050 The Natural History of Vermont 3 credits \* **OR**
- BIO-2130 Natural History of the Yellowstone Plateau 3 credits \*
  
- ENV-2210 Current Topics in Science 1 credits (fall only)
  
- BIO-4810 Internship in Biology 1-12 credits (3-12 credits) **OR**
- BIO-4920 Senior Thesis 3 credits (3-12 credits)

Electives (Take at least 16 credits from the following; they can be from more than one theme):

### Theme 1: Science

- BIO-3260 Limnology 4 credits (Note: This course has CHE-1031, General Chemistry I, as a prerequisite.)
- BIO-3270 Forest Ecology 4 credits (Note: This course has CHE-1031, General Chemistry I, as a prerequisite.)
- BIO-3290 Conservation Biology 3 credits
- BIO-4220 Wildlife Ecology & Management 4 credits
- ENV-3240 Fundamentals of Soil Science 4 credits (Note: This course has CHE-1031, General Chemistry I, as a prerequisite.)
- ENV-3310 Applications in GIS 4 credits
- GEY-3120 Field Geology 4 credits  
An upper-level organismal-biology course with a significant field/lab component, approved by your academic advisor, is also a course option in this category.

### Theme 2: Communication

- ART-2430 Introduction to Video Production 3 credits
- ENG-3140 The Creative Essay 3 credits (Note: This course has either ENG-2101, Creative Writing (3 cr.), or ENG-2051, Introduction to Newswriting (3 cr.), as a prerequisite.)
- ENG-4130 The Form & Theory of Nonfiction 3 credits (Note: It is recommended that one 3000-level writing course (3 cr.) be taken as a prerequisite.)
- ENV-2025 Natural History Photography 3 credits
- ENV-3220 Environmental Interpretation 3 credits

### Theme 3: Business

- CIS-2220 Website Design 3 credits  
Taking/passing the following courses earns a Certificate in Small Business Management:
- ACC-2121 Financial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2210 Small Business Management 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-3131 Business Law I 3 credits

**Total: 56-65 credits**

*\* These courses also fulfill requirements in the Environmental Science, Health Sciences, Outdoor Education and Wellness & Alternative Medicine programs.*

*+ These courses also fulfill the General Education Curriculum requirements.*

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Environmental Science (B.S.): Environmental Analysis & Assessment concentration**

This research-based concentration of the B.S. in Environmental Science focuses more heavily on laboratory and field courses and prepares students for more technically orientated positions in the environmental field and for graduate programs in the sciences. Students conduct research in the field and in the laboratory and have the opportunity to present with faculty mentors at science events and professional conferences. **Students graduate with a B.S. in Environmental Science with a concentration in Environmental Analysis & Assessment.**

## **Learning Outcomes**

The B.S. in Environmental Science concentrating in Environmental Analysis & Assessment seeks to produce graduates who can:

- Critically read, evaluate and synthesize information from relevant geological, biological and chemical literature related to environmental problems.
- Work individually and with others, to identify and evaluate environmental problems.
- Apply appropriate tools, analytical equipment and concepts from mathematics, physics, chemistry, geology and biology, including the use of computer software, to evaluate environmental problems.

- Observe and measure in the field and laboratory, the organic, inorganic and physical aspects of environmental problems while applying the methods of science.
- Design a research project to test hypotheses and draw conclusions based on knowledge of the science.
- Articulate, in oral, written and graphical form, assessments of environmental problems.

## Environmental Science Programs at JSC

Environmental science is an interdisciplinary field that provides an integrative and quantitative approach to the exploration of the biological, physical and societal aspects that govern the natural environment. The science faculty conduct research and provide instruction in ecology, meteorology, biology, chemistry, physics and geoscience. Lectures, laboratory work, fieldwork, internships and faculty-mentored student research prepare students for careers in private businesses, nonprofit organizations and government as well as graduate study. The fundamentals of science frame discussions of public policy and social action. All students are strongly encouraged to complete an internship in their area of interest. Graduates who successfully complete the required education courses for secondary licensure in addition to degree requirements become candidates for a license to teach science in grades 7-12.

Students in this major must complete the Environmental Sciences Core Curriculum as well as the requirements for one of the two concentrations: Environmental Analysis & Assessment or Environmental Policy & Advocacy.

## Environmental Science Core Courses (29 credits)

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits
- BIO-2340 Fundamentals of Ecology 4 credits
- CHE-1031 General Chemistry I 4 credits
- CHE-1032 General Chemistry II 4 credits
- ENV-1050 Introduction to Earth Science 4 credits
- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2210 Current Topics in Science 1 credits (1 of 2)  
ENV-2210 Current Topics in Science 1 credit (2 of 2)

## Environmental Analysis & Assessment Concentration

### Required Concentration Courses (15 credits)

- ENV-3310 Applications in GIS 4 credits
- ENV-4720 Senior Thesis 3 credits **OR**
- ENV-4810 Internship in Environmental Science 1-12 credits (3 credits)
- GEY-3120 Field Geology 4 credits
- PHY-1041 Physics I 4 credits

Electives (choose 3 of the following):

- BIO-3280 Environmental Toxicology 4 credits
- CHE-3111 Organic Chemistry I 4 credits
- CHE-3112 Organic Chemistry II 4 credits
  
- ENV-2910 Independent Study in Environmental Science 1-12 credits (3 credits) **OR**
- ENV-4910 Independent Study in Environmental Science 1-12 credits (3 credits)
  
- ENV-3130 Environmental Geology 4 credits
- ENV-3240 Fundamentals of Soil Science 4 credits
- ENV-3250 Meteorology & Climatology 4 credits
- ENV-3260 Global Climate Change 3 credits
- ENV-3400 Advanced GIS: Spatial Modeling 4 credits
- GEY-3110 Hydrogeology 4 credits
- PHY-1042 Physics II 4 credits

Total: 54-56 credits

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Environmental Science (B.S.): Environmental Policy & Advocacy concentration**

The Environmental Policy & Advocacy concentration of the B.S. in Environmental Science is designed to create tomorrow's leaders in the development of public policy and the management of natural resources. Through coursework, research and a recommended internship, students develop analytical skills and explore current topics in energy, ecology, climatology, water resources and more. **Students graduate with a B.S. in Environmental Science with a concentration in Environmental Policy & Advocacy.**

## **Learning Outcomes**

The B.S. in Environmental Science concentrating in Environmental Analysis & Assessment seeks to produce graduates who can:

- Critically read, evaluate and synthesize information from relevant geological, biological and chemical literature related to environmental problems.

- Work individually and with others, to identify and evaluate environmental problems.
- Apply appropriate tools, analytical equipment and concepts from mathematics, physics, chemistry, geology and biology, including the use of computer software, to evaluate environmental problems.
- Observe and measure, in the field and laboratory, the organic, inorganic and physical aspects of environmental problems while applying the methods of science.
- Design a research project to test hypotheses and draw conclusions based on science knowledge.
- Articulate in oral, written and graphical form assessments of environmental problems.

## Environmental Science Programs at JSC

Environmental science is an interdisciplinary field that provides an integrative and quantitative approach to the exploration of the biological, physical and societal aspects that govern the natural environment. The science faculty conduct research and provide instruction in ecology, meteorology, biology, chemistry, physics and geoscience. Lectures, laboratory work, fieldwork, internships and faculty-mentored student research prepare students for careers in private businesses, nonprofit organizations and government as well as graduate study. The fundamentals of science frame discussions of public policy and social action. All students are strongly encouraged to complete an internship in their area of interest. Graduates who successfully complete the required education courses for secondary licensure in addition to degree requirements become candidates for a license to teach science in grades 7-12.

Students in this major must complete the Environmental Sciences Core Curriculum as well as the requirements for one of the two concentrations: Environmental Analysis & Assessment or Environmental Policy & Advocacy.

## Environmental Science Core Courses (29 credits)

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits
- BIO-2340 Fundamentals of Ecology 4 credits
- CHE-1031 General Chemistry I 4 credits
- CHE-1032 General Chemistry II 4 credits
- ENV-1050 Introduction to Earth Science 4 credits
- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2210 Current Topics in Science 1 credits (1 of 2)  
ENV-2210 Current Topics in Science 1 credit (2 of 2)

## Environmental Policy & Advocacy Concentration

### Required Concentration Courses (22 credits)

- ECO-2020 Macroeconomics 3 credits
- ENV-3030 Water Resources 3 credits
- ENV-3040 Energy & Mineral Resources 3 credits
- ENV-3250 Meteorology & Climatology 4 credits
- ENV-4730 Senior Seminar 3 credits **OR**
- ENV-4720 Senior Thesis 3 credits

- POS-1020 American Politics & Government 3 credits **OR**
- POS-1010 Introduction to Political Science 3 credits
  
- POS-3050 Environmental Ethics & Politics 3 credits

### Electives (choose 2 of the following):

- ENV-2910 Independent Study in Environmental Science 1-12 credits (3 credits) **OR**
- ENV-4910 Independent Study in Environmental Science 1-12 credits (3 credits)
  
- ENV-3010 Land Use Planning 3 credits
- ENV-3020 Environmental Law 3 credits
- ENV-3130 Environmental Geology 4 credits
- ENV-3150 Toxic & Solid Waste Management 3 credits
- ENV-3230 National Parks & Wilderness Management 3 credits
- ENV-3260 Global Climate Change 3 credits
- ENV-3310 Applications in GIS 4 credits
- ENV-3400 Advanced GIS: Spatial Modeling 4 credits
- ENV-4810 Internship in Environmental Science 1-12 credits (3 credits)
- GEY-3120 Field Geology 4 credits

Total: 57-59 credits

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Health Sciences (B.S.): Health & Exercise Science concentration

Students in this program study the human body and learn how exercise, nutrition and psychosocial health behaviors influence health and wellness. Through coursework, research and a required internship, students study the sciences related to movement, exercise and contemporary health issues, and they assess and design programs to address risk factors, health and fitness in different populations. **Graduates earn a B.S. in Health Sciences with a concentration in Health & Exercise Science.** Graduates who successfully complete the education curriculum for secondary licensure become candidates for a license to teach science in grades 7-12.

In addition to the learning outcomes for all Health Sciences majors noted below, there are two additional outcomes for students in this concentration:

- Students will possess the knowledge and skills necessary for careers in clinical/medical settings, personal training, strength and conditioning, corporate health/wellness, community health education and health/wellness consulting.
- Students will be well-prepared for graduate programs in kinesiology, exercise science, public health, athletic training and related disciplines.

## Health Sciences Programs at JSC

Students majoring in Health Sciences at JSC choose one of three concentrations: Health & Exercise Science, Physical Education with or without licensure, and Pre-Physical Therapy. Students graduate with a B.S. in Health Sciences with a concentration in one of these specialties. Graduates who successfully complete the appropriate education curriculum also become candidates for a license to teach science (grades 7-12) or physical education (grades PreK-12).

The major is designed for students wishing to pursue careers in health, fitness, physical education and the allied health fields. It trains students in the basic sciences, including biology, chemistry, anatomy and physiology; assessment of health status; the disease process; health and fitness; and cardiac and pulmonary assessment and rehabilitation. Graduates are prepared for a variety of career options as well as graduate study (which is required for students pursuing careers as physical therapists, chiropractics, physician assistants and similar fields). In addition, with the current increases in lifestyle-related disease and the growing elderly population, graduates will be poised to take advantage of new prospects in the health field.

## Learning Outcomes

In addition to the outcomes identified within each concentration, the B.S. in Health Sciences seeks to produce graduates who:

- Demonstrate through both speaking and writing an understanding of biological, physical and social sciences related to human movement, sport exercise and contemporary health issues.
- Identify and describe challenges to the natural homeostasis of the body and mind and how they respond to these challenges.
- Apply knowledge related to physical activity, nutrition and other lifestyle behaviors to prevent and control diseases in diverse populations.
- Use both qualitative and quantitative methods to appraise risk factors, health status, fitness and physical skills, and then design safe and effective programs to target these factors in healthy and diseased populations.
- Possess in-depth understanding of the scientific methods and the ability to accurately interpret and apply scientific findings related to the human body, health and disease.
- Demonstrate an ability to apply theoretical knowledge, research skills, use of technology and professionally appropriate and ethical behaviors in workplace settings.

## Health Sciences Core Curriculum (24 credits)

- AHS-1010 Contemporary Health Issues 3 credits
- AHS-3120 Kinesiology 3 credits
- AHS-3230 Physiology of Exercise 4 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- BIO-2011 Human Anatomy & Physiology I 4 credits
- BIO-2012 Human Anatomy & Physiology II 4 credits
- PSY-1010 Introduction to Psychology 3 credits

## Health & Exercise Science Concentration

### Required Concentration Courses (26 credits)

- AHS-1340 First Aid and CPR 1 credits
  - AHS-2080 Health Sciences Seminar 1 credits
  - AHS-2130 Strength & Conditioning 3 credits
  - AHS-4060 Cardiopulmonary Assessment, Rehabilitation & Training 4 credits
  - AHS-4110 Psychophysiology of Stress 3 credits
  
  - AHS-4810 Internship in Allied Health Science 1-12 credits (3 credits) **OR**
  - AHS-4911 Senior Research 3 credits
  
  - BIO-1210 Introduction to Biology 4 credits \* **OR**
  - BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits \*
  
  - BIO-3180 Nutrition 3 credits
  - CHE-1031 General Chemistry I 4 credits \*
  - ENV-2210 Current Topics in Science 1 credits
- \*Fulfills Foundational Skills- Natural Science portion of General Education Curriculum.*

### Electives (take 6 to 8 credits):

- AHS-1080 Lifetime Fitness 1 credits
- AHS-3043 Care & Prevention of Athletic Injuries 4 credits
- AHS-3050 Introduction to Pharmacology 3 credits
- AHS-4025 Health Behavior: Change & Adherence 3 credits
- BIO-3125 Biological Chemistry 4 credits (offered every 3 years)
- BIO-3130 Cellular Biology: A Molecular Approach 4 credits (offered every 3 years)
- BIO-3140 Microbiology 4 credits (offered every 3 years)
- CHE-1032 General Chemistry II 4 credits
- CHE-3111 Organic Chemistry I 4 credits
- PHY-1041 Physics I 4 credits \*
- PHY-1042 Physics II 4 credits
- PSY-2070 Developmental Psychology 3 credits
- PSY-3065 Abnormal Behavior 3 credits

*\*Fulfills GEC-FD-NS*

Total: 57-59 credits

## Medical School Admission Requirements

Students who intend to apply to medical school after completing their B.S. in Health Sciences at JSC should take these standard prerequisite courses as well:

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits
- CHE-1031 General Chemistry I 4 credits
- CHE-1032 General Chemistry II 4 credits
- CHE-3111 Organic Chemistry I 4 credits
- CHE-3112 Organic Chemistry II 4 credits
- PHY-1041 Physics I 4 credits
- PHY-1042 Physics II 4 credits

*Some medical schools also require or recommend the following:*

- BIO-3125 Biological Chemistry 4 credits
- BIO-3220 Genetics 4 credits
- MAT-1531 Calculus I 4 credits

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Health Sciences (B.S.): Physical Education concentration

The Physical Education concentration in the B.S. in Health Sciences is a rigorous program that provides a strong foundation in the health sciences and meets or exceeds all national standards for PE teachers. An internship and/or field placements are required. Students have the option of earning the degree without teaching endorsement, in which case they can pursue career opportunities in physical activity and recreation programs, including fitness centers and corporate wellness programs. **Graduates earn a B.S. in Health Sciences with a concentration in Physical Education.** Graduates who successfully complete the education curriculum for the unified arts become candidates for a license to teach physical education in grades PreK-12.

In addition to the learning outcomes for all Health Sciences majors (see below), there are two additional outcomes for students in this concentration:

- Graduates will have the knowledge and skills to develop and deliver standards-based curriculum units and lessons for PreK-12 physical education, as well as assess and evaluate student learning, instruction and the curriculum itself.
- Graduates will have the knowledge and skills to establish an effective learning environment that is engaging, inclusive and recognizes cultural and learning diversity.

## Health Sciences Programs at JSC

Students majoring in Health Sciences at JSC choose one of three concentrations: Health & Exercise Science, Physical Education with or without licensure, and Pre-Physical Therapy. Students graduate with a B.S. in Health Sciences with a concentration in one of these specialties. Graduates who successfully complete the appropriate education curriculum also become candidates for a license to teach science (grades 7-12) or physical education (grades PreK-12).

The major is designed for students wishing to pursue careers in health, fitness, physical education and the allied health fields. It trains students in the basic sciences, including biology, chemistry, anatomy and physiology; assessment of health status; the disease process; health and fitness; and cardiac and pulmonary assessment and rehabilitation. Graduates are prepared for a variety of career options as well as graduate study (which is required for students pursuing careers as physical therapists, chiropractics, physician assistants and similar fields). In addition, with the current increases in lifestyle-related disease and the growing elderly population, graduates will be poised to take advantage of new prospects in the health field.

## Learning Outcomes

In addition to the outcomes identified within each concentration, the B.S. in Health Sciences seeks to produce graduates who:

- Demonstrate through both speaking and writing an understanding of biological, physical and social sciences related to human movement, sport exercise and contemporary health issues.
- Identify and describe challenges to the natural homeostasis of the body and mind and how they respond to these challenges.
- Apply knowledge related to physical activity, nutrition and other lifestyle behaviors to prevent and control diseases in diverse populations.
- Use both qualitative and quantitative methods to appraise risk factors, health status, fitness and physical skills, and then design safe and effective programs to target these factors in healthy and diseased populations.
- Possess in-depth understanding of the scientific methods and the ability to accurately interpret and apply scientific findings related to the human body, health and disease.
- Demonstrate an ability to apply theoretical knowledge, research skills, use of technology and professionally appropriate and ethical behaviors in workplace settings.

## Health Sciences Core Curriculum (24 credits)

- AHS-1010 Contemporary Health Issues 3 credits
- AHS-3120 Kinesiology 3 credits
- AHS-3230 Physiology of Exercise 4 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- BIO-2011 Human Anatomy & Physiology I 4 credits
- BIO-2012 Human Anatomy & Physiology II 4 credits
- PSY-1010 Introduction to Psychology 3 credits

## Physical Education Concentration

### Required Concentration Courses (19 credits)

- AHS-1340 First Aid and CPR 1 credits
- AHS-2130 Strength & Conditioning 3 credits
- DAN-1010 Fundamentals of Dance 3 credits

- OER-2140 Ropes Course Leadership 2 credits
- PED-1150 Foundations of Physical Education 3 credits
- PED-2040 Team Sports 2 credits
- PED-2110 Individual, Dual & Lifetime Activities 2 credits
- PED-3120 Measurement & Evaluation 3 credits

### Electives (choose 1 of the following):

- AHS-3043 Care & Prevention of Athletic Injuries 4 credits
- AHS-4025 Health Behavior: Change & Adherence 3 credits
- AHS-4110 Psychophysiology of Stress 3 credits
- BIO-3180 Nutrition 3 credits
- OER-3010 Learning in the Outdoors 4 credits

### Physical Education Teaching Endorsement (44 credits)

Students pursuing teacher licensure in physical education must complete all preceding requirements plus the following:

- PED-3070 Methods of Teaching Elementary Physical Education 4 credits
- PED-3140 Methods of Teaching Secondary School Physical Education 4 credits
- EDU-TEW1 Teacher Education Workshop 1: Introduction to Teacher Education 0 credits
- EDU-TEW2 Teacher Education Workshop 2: Application for Practicum I 0 credits
- EDU-TEW3 Teacher Education Workshop 3: Application for Practicum II 0 credits
- EDU-TEW4 Teacher Education Workshop 4: Application for student teaching 0 credits
- EDU-TEW5 Teacher Education Workshop 5: Application for a Verification Check 0 credits
- EDU-2360 Perspectives on Learning in a Diverse Society 3 credits
- EDU-2365 The Ecology of Human Experience: Development, Culture & Identity 3 credits
- EDU-2370 The Contemporary School 3 credits
- EDU-3112 Instructional Dynamics for the Elementary Educator: Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Learners; Part III: Unified Arts for Diverse Learners 3 credits
- EDU-3311 Foundations of Inclusive Practices 3 credits
- EDU-3440 Teaching Toward Democracy 3 credits
- EDU-4310 The Art of Experience in Education: Designing for Engagement & Accomplishment through the Unified Arts 3 credits
- EDU-4650 Capstone & Thesis Seminar 3 credits
- EDU-4812 Unified Arts Student Teaching 12 credits

**Total: 90-91 credits**

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Health Sciences (B.S.): Pre-Physical Therapy concentration

Pre-Physical Therapy is a rigorous, science-packed concentration that prepares graduates for admission to doctorate of physical therapy (D.P.T.) programs and paves the way for chiropractic and physician-assistant graduate study. Courses include chemistry, physics, anatomy, physiology, biology, psychology and statistics. An internship under the supervision of a physical therapist, chiropractor or physician assistant is required. **Graduates earn a B.S. in Health Sciences with a concentration in Pre-Physical Therapy.** Graduates who successfully complete the education curriculum for secondary licensure become candidates for a license to teach science in grades 7-12.

In addition to the learning outcomes for all Health Sciences majors (see below), there is an additional outcome for students in this concentration:

- Students will have the knowledge and skills for entry into graduate programs in physical therapy, chiropractic medicine, physician's assistant and related allied health disciplines.

## Health Sciences Programs at JSC

Students majoring in Health Sciences at JSC choose one of three concentrations: Health & Exercise Science, Physical Education with or without licensure, and Pre-Physical Therapy. Students graduate with a B.S. in Health Sciences with a concentration in one of these specialties. Graduates who successfully complete the appropriate education curriculum also become candidates for a license to teach science (grades 7-12) or physical education (grades PreK-12).

The major is designed for students wishing to pursue careers in health, fitness, physical education and the allied health fields. It trains students in the basic sciences, including biology, chemistry, anatomy and physiology; assessment of health status; the disease process; health and fitness; and cardiac and pulmonary assessment and rehabilitation. Graduates are prepared for a variety of career options as well as graduate study (which is required for students pursuing careers as physical therapists, chiropractors, physician assistants and similar fields). In addition, with the current increases in lifestyle-related disease and the growing elderly population, graduates will be poised to take advantage of new prospects in the health field.

## Learning Outcomes

In addition to the outcomes identified within each concentration, the B.S. in Health Sciences seeks to produce graduates who:

- Demonstrate through both speaking and writing an understanding of biological, physical and social sciences related to human movement, sport exercise and contemporary health issues.
- Identify and describe challenges to the natural homeostasis of the body and mind and how they respond to these challenges.
- Apply knowledge related to physical activity, nutrition and other lifestyle behaviors to prevent and control diseases in diverse populations.
- Use both qualitative and quantitative methods to appraise risk factors, health status, fitness and physical skills, and then design safe and effective programs to target these factors in healthy and diseased populations.
- Possess in-depth understanding of the scientific methods and the ability to accurately interpret and apply scientific findings related to the human body, health and disease.
- Demonstrate an ability to apply theoretical knowledge, research skills, use of technology and professionally appropriate and ethical behaviors in workplace settings.

## Health Sciences Core Curriculum (24 credits)

- AHS-1010 Contemporary Health Issues 3 credits

- AHS-3120 Kinesiology 3 credits
- AHS-3230 Physiology of Exercise 4 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- BIO-2011 Human Anatomy & Physiology I 4 credits
- BIO-2012 Human Anatomy & Physiology II 4 credits
- PSY-1010 Introduction to Psychology 3 credits

## Pre-Physical Therapy Concentration

### Required Concentration Courses (34 credits)

- AHS-2080 Health Sciences Seminar 1 credits
- AHS-4060 Cardiopulmonary Assessment, Rehabilitation & Training 4 credits
- AHS-4810 Internship in Allied Health Science 1-12 credits (3 credits) **OR**
- AHS-4911 Senior Research 3 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits \*
- CHE-1031 General Chemistry I 4 credits \*
- CHE-1032 General Chemistry II 4 credits
- ENV-2210 Current Topics in Science 1 credits
- MAT-2030 Probability & Statistics 3 credits \*
- PHY-1041 Physics I 4 credits \*
- PHY-1042 Physics II 4 credits

*\*Fulfills GEC-FD-NS*

### Electives (choose 6-8 credits):

*Note:* At least 3 credits must be either an AHS-designated course or BIO 3180.

- AHS-2130 Strength & Conditioning 3 credits
- AHS-3043 Care & Prevention of Athletic Injuries 4 credits
- AHS-3050 Introduction to Pharmacology 3 credits
- AHS-4025 Health Behavior: Change & Adherence 3 credits
- AHS-4110 Psychophysiology of Stress 3 credits
- BIO-3125 Biological Chemistry 4 credits
- BIO-3130 Cellular Biology: A Molecular Approach 4 credits
- BIO-3140 Microbiology 4 credits
- BIO-3180 Nutrition 3 credits
- CHE-3111 Organic Chemistry I 4 credits
- PSY-2070 Developmental Psychology 3 credits
- PSY-3065 Abnormal Behavior 3 credits

Total: 64-66 credits

## Graduate Study Advisory

Some graduate programs may have admission requirements as noted below that are not required in this program of study and therefore should be taken as electives. **Discuss your academic and career goals with your advisor and identify your electives early in the program.**

- **Doctor of Physical Therapy (DPT) programs sometimes require the following additional prerequisites:**
  - One additional psychology course (PSY-2070 or PSY-3065 recommended)
  - One additional 4-credit introductory biology course (take BIO-1212 *and* BIO-1210 **or** BIO-1212)
- **Doctor of Chiropractic programs often require the following additional prerequisite:**
  - CHE-3111 Organic Chemistry I
- **Physician's Assistant (PA) graduate programs often require the following prerequisites:**
  - Two semesters of 4-credit advanced biology courses (3000- or 4000-level); students interested in graduate PA programs should replace PHY-1041 Physics I and PHY-1042 Physics II with these courses.

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Outdoor Education (B.A.): Adventure Education & Wilderness Leadership concentration

### Outdoor Education Programs at JSC

The Bachelor of Arts in Outdoor Education is an exciting offering within our diverse department. The Outdoor Education major includes courses from many different disciplines, including environmental science, biology, psychology, and business, as well as courses focused specifically on the techniques necessary to lead and teach people in the out-of-doors. Four concentrations are offered:

1. Adventure Education & Wilderness Leadership
2. Environmental Education
3. Outdoor Program Management & Administration
4. Therapeutic Wilderness & Adventure Programming

Our program's graduates can expect to find careers with organizations such as wilderness schools, adventure outfitters, outdoor guide services, wilderness or adventure therapy programs, ropes courses, indoor climbing centers, resorts, private schools with outdoor programming, year-round camps, environmental and nature education centers, and national, state, and local parks, just to name a few.

Prior to the required internship, students must complete OER-3010 with a grade of C- or better, have junior or senior standing and obtain a recommendation from the Outdoor Education faculty. Students should meet with their advisors early in their program for specific details regarding the internship process.

## Learning Outcomes

The B.A. in Outdoor Education seeks to produce graduates who can demonstrate:

- Knowledge of the historical and philosophical foundations of the field, human development, learning theories, experiential education, natural history and environmental issues;
- The ability to critically read, evaluate and synthesize literature in the field of outdoor education and carry out an original research project;
- Pedagogical skills and practical experience organizing, teaching and leading diverse populations through experiential, field-based learning opportunities;
- Knowledge of professional practices including program administration, program development, risk management, emergency procedures and awareness of industry standards, current issues and trends;
- Knowledge and skills specific to outdoor adventure pursuits, environmental education, therapeutic applications, and/or program management and administrative practices..

## Required Core Courses

- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2050 The Natural History of Vermont 3 credits **OR**
- BIO-2130 Natural History of the Yellowstone Plateau 3 credits
- OER-1000 Introduction to Outdoor Education 4 credits
- OER-3010 Learning in the Outdoors 4 credits \*
- OER-3020 Program Planning in Outdoor Education 3 credits
- OER-4900 Research in Outdoor Education 3 credits \*\*
- PSY-1010 Introduction to Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits
- OER-4810 Internship in Outdoor Education 6-12 credits (6-12 credits)

\* A grade of C- or higher is required in OER 3010.

\*\*PSY-2410, Research Methods in Psychology (3 cr.), may be substituted for Wilderness & Adventure Therapy students only.

## Adventure Education & Wilderness Concentration

### Required Concentration Courses

- OER-1061 Backpacking 1 credits
- OER-2060 Wilderness First Responder 4 credits
- OER-2062 Advanced Backpacking 2 credits
- OER-2140 Ropes Course Leadership 2 credits
- OER-3070 Adventure Education Theory & Practice 3 credits
- OER-4030 Wilderness Leadership Techniques 4 credits

### Instructor Course (take one course)

- OER-1165 Coastal Kayak Guide Training 2 credits **OR**
- OER-2050 Rock Climbing Instructor 2 credits **OR**
- OER-3090 Leave No Trace Master Educator 3 credits

### Outdoor Education Skills Courses (choose 4 for 2-7 credits):

- OER-1030 Outdoor Education Activities 0.5 credits (Fly-fishing)
- OER-1030 Outdoor Education Activities 0.5 credits (Cross-Country Skiing)
- OER-1030 Outdoor Education Activities 0.5 credits (Snowshoeing)
- OER-1030 Outdoor Education Activities 0.5 credits (Introduction to River Kayaking)
- OER-1131 Rock Climbing I 1 credits
- OER-2080 Advanced Rock Craft 2 credits
- OER-1170 Ice Climbing 1 credits
- OER-1070 Orienteering 1 credits
- OER-1161 Whitewater Kayaking 1 credits
- OER-1162 Coastal Kayaking 1 credits
- OER-3150 Winter Expedition 3 credits
- OER-4710 Special Topics in Outdoor Education & Recreation 3 credits (must be an activity-based course)
- OER-4830 Outdoor Education Teaching Assistant 1-4 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Outdoor Education (B.A.): Environmental Education concentration**

This program is for students pursuing careers helping children and adults learn about and explore their environment, understand what they can do to take care of it, and apply what they learn to global environmental issues. It program provides technical training in outdoor techniques and leadership in combination with cross-disciplinary study in education, psychology, biology and environmental science. **Graduates earn a B.A. in Outdoor Education with a concentration in Environmental Education.**

Students in this concentration will be prepared for employment in a variety of settings, including working at outdoor education, environmental and nature centers; as naturalists or interpreters in federal, state or local parks; conducting nature or environmentally-oriented activities for municipal or community recreation programs; as summer camp nature specialists; and as

school and college workshop leaders and curriculum consultants. Students can also pursue advanced degrees in outdoor education and environmental education.

## Outdoor Education Programs at JSC

The Bachelor of Arts in Outdoor Education is an exciting offering within our diverse department. The Outdoor Education major includes courses from many different disciplines, including environmental science, biology, psychology, and business, as well as courses focused specifically on the techniques necessary to lead and teach people in the out-of-doors. Four concentrations are offered:

1. Adventure Education & Wilderness Leadership
2. Environmental Education
3. Outdoor Program Management & Administration
4. Therapeutic Wilderness & Adventure Programming

Our program's graduates can expect to find careers with organizations such as wilderness schools, adventure outfitters, outdoor guide services, wilderness or adventure therapy programs, ropes courses, indoor climbing centers, resorts, private schools with outdoor programming, year-round camps, environmental and nature education centers, and national, state, and local parks, just to name a few.

Prior to the required internship, students must complete OER-3010 with a grade of C- or better, have junior or senior standing and obtain a recommendation from the Outdoor Education faculty. Students should meet with their advisors early in their program for specific details regarding the internship process.

## Learning Outcomes

The B.A. in Outdoor Education seeks to produce graduates who can demonstrate:

- Knowledge of the historical and philosophical foundations of the field, human development, learning theories, experiential education, natural history and environmental issues;
- The ability to critically read, evaluate and synthesize literature in the field of outdoor education and carry out an original research project;
- Pedagogical skills and practical experience organizing, teaching and leading diverse populations through experiential, field-based learning opportunities;
- Knowledge of professional practices including program administration, program development, risk management, emergency procedures and awareness of industry standards, current issues and trends;
- Knowledge and skills specific to outdoor adventure pursuits, environmental education, therapeutic applications, and/or program management and administrative practices..

## Required Core Courses

- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2050 The Natural History of Vermont 3 credits **OR**
- BIO-2130 Natural History of the Yellowstone Plateau 3 credits
- OER-1000 Introduction to Outdoor Education 4 credits
- OER-3010 Learning in the Outdoors 4 credits \*
- OER-3020 Program Planning in Outdoor Education 3 credits
- OER-4900 Research in Outdoor Education 3 credits \*\*
- PSY-1010 Introduction to Psychology 3 credits

- PSY-2070 Developmental Psychology 3 credits
- OER-4810 Internship in Outdoor Education 6-12 credits (6-12 credits)

\* A grade of C- or higher is required in OER 3010.

\*\*PSY-2410, Research Methods in Psychology (3 cr.), may be substituted for Wilderness & Adventure Therapy students only.

## Environmental Education Concentration

### Required Concentration Courses

- BIO-1210 Introduction to Biology 4 credits **OR**
- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-2340 Fundamentals of Ecology 4 credits
- ENV-1050 Introduction to Earth Science 4 credits
- ENV-3220 Environmental Interpretation 3 credits
- ENV-3230 National Parks & Wilderness Management 3 credits
- ENV-4010 Global Environmental Issues 3 credits

### Natural Science Field Course (choose 1):

- BIO-2145 Plant Biology 4 credits
- BIO-3110 Field Ornithology 3 credits
- BIO-3310 Wildlife Field Methods 4 credits
- GEY-3120 Field Geology 4 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Outdoor Education (B.A.): Outdoor Program Management & Administration concentration**

### Outdoor Education Programs at JSC

The Bachelor of Arts in Outdoor Education is an exciting offering within our diverse department. The Outdoor Education major includes courses from many different disciplines, including environmental science, biology, psychology, and business, as well as courses focused specifically on the techniques necessary to lead and teach people in the out-of-doors. Four concentrations are offered:

1. Adventure Education & Wilderness Leadership
2. Environmental Education
3. Outdoor Program Management & Administration
4. Therapeutic Wilderness & Adventure Programming

Our program's graduates can expect to find careers with organizations such as wilderness schools, adventure outfitters, outdoor guide services, wilderness or adventure therapy programs, ropes courses, indoor climbing centers, resorts, private schools with outdoor programming, year-round camps, environmental and nature education centers, and national, state, and local parks, just to name a few.

Prior to the required internship, students must complete OER-3010 with a grade of C- or better, have junior or senior standing and obtain a recommendation from the Outdoor Education faculty. Students should meet with their advisors early in their program for specific details regarding the internship process.

## Learning Outcomes

The B.A. in Outdoor Education seeks to produce graduates who can demonstrate:

- Knowledge of the historical and philosophical foundations of the field, human development, learning theories, experiential education, natural history and environmental issues;
- The ability to critically read, evaluate and synthesize literature in the field of outdoor education and carry out an original research project;
- Pedagogical skills and practical experience organizing, teaching and leading diverse populations through experiential, field-based learning opportunities;
- Knowledge of professional practices including program administration, program development, risk management, emergency procedures and awareness of industry standards, current issues and trends;
- Knowledge and skills specific to outdoor adventure pursuits, environmental education, therapeutic applications, and/or program management and administrative practices..

## Required Core Courses

- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2050 The Natural History of Vermont 3 credits **OR**
- BIO-2130 Natural History of the Yellowstone Plateau 3 credits
- OER-1000 Introduction to Outdoor Education 4 credits
- OER-3010 Learning in the Outdoors 4 credits \*
- OER-3020 Program Planning in Outdoor Education 3 credits
- OER-4900 Research in Outdoor Education 3 credits \*\*
- PSY-1010 Introduction to Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits
- OER-4810 Internship in Outdoor Education 6-12 credits (6-12 credits)

\* A grade of C- or higher is required in OER 3010.

\*\*PSY-2410, Research Methods in Psychology (3 cr.), may be substituted for Wilderness & Adventure Therapy students only.

## Outdoor Program Management & Administration Concentration

## Required Concentration Courses (minimum 24 credits)

- BUS-1340 Social Entrepreneurship 3 credits \*
- BUS-2210 Small Business Management 3 credits \*
- BUS-2230 Principles of Marketing 3 credits \*
  
- BUS-2410 Human Resource Management 3 credits **OR**
- BUS-3250 Organizational Behavior & Management 3 credits
  
- BUS-2280 Introduction to Business Ethics 3 credits **OR**
- POS-3050 Environmental Ethics & Politics 3 credits
  
- OER-2140 Ropes Course Leadership 2 credits
- OER-3070 Adventure Education Theory & Practice 3 credits

In addition to the above courses, students must complete two Outdoor Education Skills classes (1-6 credits) from the following list: Backpacking, Advanced Backpacking, Rock Climbing I, Advanced Rock Craft, River Kayaking, Whitewater Kayaking, Coastal Kayaking, Stand-Up Paddleboarding, Orienteering, Snowshoeing, Ice Climbing, Nordic & Backcountry Skiing, Fly Fishing.

## Additional Concentration Requirement (Select one course)

- ACC-2121 Financial Accounting 4 credits \*
- BUS-3110 Ski Area Management & Design 3 credits
- BUS-3131 Business Law I 3 credits \*
- BUS-3440 Ecotourism and Sustainability 3 credits
- CIS-2220 Website Design 3 credits

Total: 56 credits

### Note

Note: The above courses in the concentration with an asterisk (\*) complete the Certificate in Small Business Management.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Outdoor Education (B.A.): Therapeutic Wilderness & Adventure Programming concentration**

## Outdoor Education Programs at JSC

The Bachelor of Arts in Outdoor Education is an exciting offering within our diverse department. The Outdoor Education major includes courses from many different disciplines, including environmental science, biology, psychology, and business, as well as courses focused specifically on the techniques necessary to lead and teach people in the out-of-doors. Four concentrations are offered:

1. Adventure Education & Wilderness Leadership
2. Environmental Education
3. Outdoor Program Management & Administration
4. Therapeutic Wilderness & Adventure Programming

Our program's graduates can expect to find careers with organizations such as wilderness schools, adventure outfitters, outdoor guide services, wilderness or adventure therapy programs, ropes courses, indoor climbing centers, resorts, private schools with outdoor programming, year-round camps, environmental and nature education centers, and national, state, and local parks, just to name a few.

Prior to the required internship, students must complete OER-3010 with a grade of C- or better, have junior or senior standing and obtain a recommendation from the Outdoor Education faculty. Students should meet with their advisors early in their program for specific details regarding the internship process.

## Learning Outcomes

The B.A. in Outdoor Education seeks to produce graduates who can demonstrate:

- Knowledge of the historical and philosophical foundations of the field, human development, learning theories, experiential education, natural history and environmental issues;
- The ability to critically read, evaluate and synthesize literature in the field of outdoor education and carry out an original research project;
- Pedagogical skills and practical experience organizing, teaching and leading diverse populations through experiential, field-based learning opportunities;
- Knowledge of professional practices including program administration, program development, risk management, emergency procedures and awareness of industry standards, current issues and trends;
- Knowledge and skills specific to outdoor adventure pursuits, environmental education, therapeutic applications, and/or program management and administrative practices..

## Required Core Courses

- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2050 The Natural History of Vermont 3 credits **OR**
- BIO-2130 Natural History of the Yellowstone Plateau 3 credits
- OER-1000 Introduction to Outdoor Education 4 credits
- OER-3010 Learning in the Outdoors 4 credits \*
- OER-3020 Program Planning in Outdoor Education 3 credits
- OER-4900 Research in Outdoor Education 3 credits \*\*
- PSY-1010 Introduction to Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits

- OER-4810 Internship in Outdoor Education 6-12 credits (6-12 credits)

\* A grade of C- or higher is required in OER 3010.

\*\*PSY-2410, Research Methods in Psychology (3 cr.), may be substituted for Wilderness & Adventure Therapy students only.

## Therapeutic Wilderness & Adventure Programming Concentration

### Required Core Courses (Minimum 26 cr.)

- OER-1061 Backpacking 1 credits
- OER-2060 Wilderness First Responder 4 credits
- OER-2140 Ropes Course Leadership 2 credits
- OER-3070 Adventure Education Theory & Practice 3 credits
- PSY-2040 Social Psychology 3 credits
- PSY-3010 Theories of Personality 3 credits
- PSY-3065 Abnormal Behavior 3 credits
- PSY-3330 Psychology of Addictions 3 credits
- PSY-3345 The Psychology of Groups 3 credits

In addition to the above courses, students must complete two Outdoor Education Skills classes (1-6 credits) from the following list: Backpacking, Advanced Backpacking, Rock Climbing I, Advanced Rock Craft, River Kayaking, Whitewater Kayaking, Coastal Kayaking, Stand-Up Paddleboarding, Orienteering, Snowshoeing, Ice Climbing, Nordic & Backcountry Skiing, Fly Fishing.

Total: 58 credits

### Recommended Electives

- AHS-1010 Contemporary Health Issues 3 credits
- AHS-4025 Health Behavior: Change & Adherence 3 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- OER-1165 Coastal Kayak Guide Training 2 credits
- OER-2050 Rock Climbing Instructor 2 credits
- OER-2062 Advanced Backpacking 2 credits
- OER-3090 Leave No Trace Master Educator 3 credits
- OER-4030 Wilderness Leadership Techniques 4 credits
- PSY-4010 Biological Psychology 3 credits
- PSY-4151 Counseling 3 credits
- PSY-4330 Introduction to Clinical Skills 3 credits
- PSY-4340 Fundamentals of Community Mental Health 3 credits
- SOC-3080 Wellness & Alternative Medicine 3 credits
- WAM-3010 Living the Good Life 3 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Minors

### Adventure Education Minor

#### Minimum of one OER Skills Course .5-3 credits

Choice of:

- OER-1030 Outdoor Education Activities 0.5 credits (Snowshoeing)
- OER-1030 Outdoor Education Activities 0.5 credits (Cross-Country Skiing)
- OER-1030 Outdoor Education Activities 0.5 credits (Intro to River Kayaking)
- OER-1030 Outdoor Education Activities 0.5 credits (Fly-fishing)
- OER-1050 Hiking & Camping 1 credits
- OER-1131 Rock Climbing I 1 credits
- OER-1060 Ropes Course 1 credits
- OER-1070 Orienteering 1 credits
- OER-1161 Whitewater Kayaking 1 credits
- OER-1162 Coastal Kayaking 1 credits
- OER-1170 Ice Climbing 1 credits
- OER-2080 Advanced Rock Craft 2 credits
- Wilderness Canoe Training
- OER-3150 Winter Expedition 3 credits

#### One Instructor-Level OER (2 credits)

Choice of:

- OER-2050 Rock Climbing Instructor 2 credits
- OER-2140 Ropes Course Leadership 2 credits
- OER-1165 Coastal Kayak Guide Training 2 credits
- Other approved instructor certification course 2 credits

#### Additional Required Courses

- OER-1000 Introduction to Outdoor Education 4 credits
- OER-1061 Backpacking 1 credits

- OER-2060 Wilderness First Responder 4 credits
- OER-2062 Advanced Backpacking 2 credits
- OER-3070 Adventure Education Theory & Practice 3 credits
- OER-4030 Wilderness Leadership Techniques 4 credits

Total: 20.5-23 credits

## **Biology Minor**

### Required Courses

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits
- Plus a minimum of 16 biology credits to consist of four 2000- level or higher biology courses of which at least two are at the 3000-4000 level. 16 credits

Total: 24 credits

## **Chemistry Minor**

### Required Courses

- CHE-1031 General Chemistry I 4 credits
- CHE-1032 General Chemistry II 4 credits
- CHE-XXXX Two additional upper-level CHE courses 8 credits
- ENV-1110 Introduction to Environmental Problems 3 credits

Total: 19 credits

*A chemistry minor is not permitted for students who are seeking a B.S. degree in biology.*

## **Environmental Education Minor**

### Required Courses

- ENV-1050 Introduction to Earth Science 4 credits

- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-3220 Environmental Interpretation 3 credits
- ENV-4010 Global Environmental Issues 3 credits
- ENV-XXXX One additional upper-level ENV course 3 credits
- OER-3010 Learning in the Outdoors 4 credits

Total: 20 credits

## Environmental Science Minor

The minor in environmental science provides sufficient background knowledge for students to comprehend the fundamentals of the science that frames the discussion for policy decisions and social action. The minor is appropriate for students who choose to major in business, economics, political science, biology, outdoor education or other majors offered at Johnson State College.

### Required Courses

- ENV-1050 Introduction to Earth Science 4 credits
- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-3030 Water Resources 3 credits
- ENV-3040 Energy & Mineral Resources 3 credits
- ENV-XXXX Two additional upper-level ENV courses 6 credits

Total: 19 credits

## Fine & Performing Arts

### Faculty/Staff

Kenneth Leslie, *Professor, Department Co-Chair (fine arts)*

John Miller, *Professor*

Maris Wolff, *Professor*

Mary Martin, *Associate Professor*

Sean Clute, *Associate Professor (sabbatical 2017-18)*

Isaac Eddy, *Assistant Professor*

Bethany Plissey, *Assistant Professor, Department Co-Chair (performing arts)*

Justin Rito, *Assistant Professor*

Michael Zebrowski, *Assistant Professor*

Kim Anetsberger, *Administrative Assistant*

The Department of Fine & Performing Arts offers a variety of programs taught by talented, accomplished professionals. Fine arts programs are headquartered in the Visual Arts Center (fully renovated in 2012); performing arts programs are housed in the Dibden Center for the Arts.

Fine arts students work in a variety of disciplines, including drawing, painting, sculpture, printmaking, photography, digital media, ceramics and woodworking; art history courses provide a critical and historical perspective for assessing their work. Students in the B.F.A. programs must complete at least three semesters of studio work and present an exhibition and gallery talk during their final year of study.

Performing Arts students master their crafts under practicing professionals and have numerous opportunities to perform throughout the year in JSC productions and ensembles. An audition is required for all students considering a major in music and/or musical theater; students must submit a recorded audition (or a link to an online recording of their work) with supporting materials in addition to the standard college application for admissions. (See [jsc.edu/Auditions](http://jsc.edu/Auditions) for details.) This process is specifically for music and musical theater majors and will not preclude a student from admission into Johnson State College.

In addition, all music, music education and musical theater majors must pass the keyboard proficiency exam specific to their major. The exam is held during the final weeks of each semester on the same day as end-of-semester juries, and students may sign up for the exam two weeks prior to that date. Students should contact their academic advisor for more information.

## Proficiencies, Juries & Praxis Exam Schedule

Students must complete 6 to 10 credits, depending on their area of concentration, in one primary voice or instrument. This is the instrument utilized for juries and the senior recital.

<b>First Year</b>	Jury in spring only
<b>Second Year</b>	Jury in both fall and spring  Piano proficiency exam at end of spring semester as part of keyboard courses  Music education majors should take the Praxis exam as soon as they have finished the JSC math requirements (spring of year 2 is recommended)
<b>Third Year</b>	Jury in both fall and spring
<b>Prior to Student Teaching (music education majors)</b>	All course requirements, recitals, the pre-student teaching portfolio and the Praxis Core exam must be completed. In addition, students must have a total GPA of a 3.00 or higher or have received certification of academic competence from the Academic Dean.

*The Department of Fine & Performing Arts offers courses with the following designators: ARH (art history), ART (studio arts and art education), DAN (dance), MUS (music), and THA (theater arts). See full Course Descriptions. The department also offers a Master of Fine Arts Program in Studio Arts; refer to the JSC Graduate Catalog for information. (To access this catalog, chose it from the drop-down menu at upper right.)*

## **Majors & Concentrations**

### **Art (B.A.)**

Within this program, students create work in a variety of disciplines, including drawing, painting, sculpture, printmaking, photography, digital media, ceramics and art history. The degree provides students with a critical and historical perspective for assessing their work.

## **Learning Outcomes for Art Majors**

### **Graduating students should be able to:**

1. Articulate informed and ideologically sound ideas about art, both historic and contemporary, and connect those ideas to the wider world.
2. Create artwork that is technically proficient and imbued with meaningful content.
3. Demonstrate a general understanding, ability and resourcefulness with a wide range of art media, as well as a deeper understanding of at least one medium such as drawing, painting, sculpture, photography, digital media or art history.
4. Have an openness to ideas other than their own and a willingness to take risks with their own work.
5. Have established regular studio practice, which will hopefully be lifelong, be aware of developing issues in their own work and know how to continue on their own in the pursuit of that vision, with strategies for maintaining self-awareness.

## **Art Requirements**

### **Required Courses**

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-1140 Design I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits

**Subtotal: 21 credits**

## Introductory Studio Electives

(Select two courses)

- ART-1231 Ceramics I 3 credits
- ART-2150 Jewelry & Metalsmithing 3 credits
- ART-2301 Photography I 3 credits
- ART-2410 Introduction to Printmaking 3 credits

Subtotal: 6 credits

## Advanced Art History & Studio\* Electives

(Select five courses, including at least one from ARH and one from ART)

- ARH-3015 Greek & Roman Art 3 credits
- ARH-3020 Art of the Renaissance 3 credits
- ARH-3060 Twentieth Century Art 3 credits
- ARH-3110 The Spiritual in Non-Western Art 3 credits
- ARH-3120 Art Criticism 3 credits
- ARH-3130 The History of Photography 3 credits
- ARH-3140 African Art 3 credits
- ARH-3150 Art of the Human Body 3 credits
- ARH-3210 Women in Art 3 credits
- ART-3031 Life Drawing 3 credits
- ART-3032 Advanced Drawing 3 credits
- ART-3040 Landscape Painting 3 credits
- ART-3222 Ceramics II 3 credits
- ART-3314 Advanced Printmaking 3 credits
- ART-3320 Monoprints 3 credits
- ART-4020 Advanced Digital Media 3 credits
- ART-4040 Advanced Photography 3 credits
- ART-4050 Advanced Painting 3 credits
- ART-4060 Advanced Digital: Graphic Design 3 credits
- ART-4070 Advanced Digital: Web Design for Artists 3 credits
- ART-4110 Visual Art & Performance 3 credits
- ART-4130 Advanced Sculpture 3 credits
- ARH-4710 Special Topics in Art History 3 credits
- ART-4710 Special Topics in Art 3 credits

Subtotal: 15 credits

\*Students may take the same Advanced Studio course more than once, but no more than twice with the same professor.

## Required Capstone Course:

- ARH-4720 Seminar in Contemporary Art Issues 3 credits

Total: 45 credits

## Art Education (PreK-12) Teaching Endorsement

Students pursuing a license to teach art in grades PreK-12 must complete either the B.A. in Art or the B.F.A. in Studio Arts as well as specific teacher-education coursework and requirements. Please refer to the Unified Arts Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Fine Woodworking and Furniture Design (A.A.)

### Fine Woodworking and Furniture Design Programs

Students enrolled in Johnson's new Bachelor of Fine Arts or Associate of Arts in Fine Woodworking and Furniture Design take most of the courses in the major at the Vermont Woodworking School (VWS) in their 15,000 square foot, historic barn turned modern woodworking facility. The Vermont Woodworking School is located in Cambridge, about 20 minutes away from the Johnson campus, complete with state-of-the-art bench rooms, mill shops, a finish room, a 12-seat computer lab, a photo studio, common areas and galleries. Johnson students study in the same classes and with the same faculty as VWS's Immersion students. They are assigned a bench at the Vermont Woodworking School and participate in an average of 6 to 9 credits of their full 15-credit course load each semester. The remainder of their courses are completed at the Johnson campus.

Graduates of the A.A. and B.F.A. in Fine Woodworking and Furniture Design are prepared to go on to careers in the wood products industry including working for wood products manufacturers, small wood businesses, making and/or designing furniture, or in other fabrication industries. Both the A.A. and the B.F.A. equip students with skills using SolidWorks, CAD program, preparing graduates for design jobs in the wood industry and beyond. Graduates also go on to start their own furniture businesses.

Learning Outcomes for A.A. and B.F.A. Fine Woodworking and Furniture Design Majors:

1. Articulate informed and ideologically sound ideas about art, both historic and contemporary, and connect those ideas to the wider world.
2. Produce creative artwork that is technically proficient and imbued with meaningful content.
3. Demonstrate a general understanding, ability, and resourcefulness with a wide range of art media, as well as a deeper understanding of at least one medium such as drawing, painting, sculpture, photography, digital media, or art history.
4. Have an openness to ideas other than their own and a willingness to take risks with their own work.
5. Have established regular studio practice, which will hopefully be lifelong, be aware of developing issues in their own work, and know how to continue on their own in the pursuit of that vision, with strategies for maintaining self-awareness.

6. Be familiar with the professional art world, from the perspective of career options, including exhibition venues, graduate schools, and grant opportunities.
7. Assemble a professional portfolio.
8. Understand the mechanics of setting up a safe and functioning studio.
9. Know how to do a professional exhibition of their art, write about their art, and speak about their art at a public event.

## Required Core Courses

- WFD-1010 Foundations of Furniture Design I 9 credits
- WFD-1020 Design Studio I: Small Tables 6 credits
- WFD-2010 Foundations of Furniture Design II 9 credits
- WFD-2020 Design Studio II: Casework Construction 6 credits

## Advanced Studio Courses

Students must take 6 credits of 3000/4000-level advanced JSC studio courses.

**Total: 36 credits**

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Fine Woodworking and Furniture Design (B.F.A.)**

### Fine Woodworking and Furniture Design Programs

Students enrolled in Johnson's new Bachelor of Fine Arts or Associate of Arts in Fine Woodworking and Furniture Design take most of the courses in the major at the Vermont Woodworking School (VWS) in their 15,000 square foot, historic barn turned modern woodworking facility. The Vermont Woodworking School is located in Cambridge, about 20 minutes away from the Johnson campus, complete with state-of-the-art bench rooms, mill shops, a finish room, a 12-seat computer lab, a photo studio, common areas and galleries. Johnson students study in the same classes and with the same faculty as VWS's Immersion students. They are assigned a bench at the Vermont Woodworking School and participate in an average of 6 to 9 credits of their full 15-credit course load each semester. The remainder of their courses are completed at the Johnson campus.

Graduates of the A.A. and B.F.A. in Fine Woodworking and Furniture Design are prepared to go on to careers in the wood products industry including working for wood products manufacturers, small wood businesses, making and/or designing furniture, or in other fabrication industries. Both the A.A. and the B.F.A. equip students with skills using SolidWorks, CAD program, preparing graduates for design jobs in the wood industry and beyond. Graduates also go on to start their own furniture businesses.

Learning Outcomes for A.A. and B.F.A. Fine Woodworking and Furniture Design Majors:

1. Articulate informed and ideologically sound ideas about art, both historic and contemporary, and connect those ideas to the wider world.

2. Produce creative artwork that is technically proficient and imbued with meaningful content.
3. Demonstrate a general understanding, ability, and resourcefulness with a wide range of art media, as well as a deeper understanding of at least one medium such as drawing, painting, sculpture, photography, digital media, or art history.
4. Have an openness to ideas other than their own and a willingness to take risks with their own work.
5. Have established regular studio practice, which will hopefully be lifelong, be aware of developing issues in their own work, and know how to continue on their own in the pursuit of that vision, with strategies for maintaining self-awareness.
6. Be familiar with the professional art world, from the perspective of career options, including exhibition venues, graduate schools, and grant opportunities.
7. Assemble a professional portfolio.
8. Understand the mechanics of setting up a safe and functioning studio.
9. Know how to do a professional exhibition of their art, write about their art, and speak about their art at a public event.

## Required Core Courses (63 credits)

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-1140 Design I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits
- WFD-1010 Foundations of Furniture Design I 9 credits
- WFD-1020 Design Studio I: Small Tables 6 credits
- WFD-2010 Foundations of Furniture Design II 9 credits
- WFD-2020 Design Studio II: Casework Construction 6 credits
- WFD-2030 Business Practice and Marketing for Artisans 3 credits
- WFD-3010 Thinking and Achieving Through Craft 3 credits
- WFD-3020 Design Studio III: Chairs 6 credits

## Advanced Studio Courses

Students must complete 6 credits of 3000/4000-level advanced studio electives at the Johnson campus.

## Advanced Art History Courses

Students must complete 3 credits of 3000/4000-level advanced art history electives at the Johnson campus.

## Senior Capstone Courses

Students will be required to complete 6 credits in a Senior Furniture Design course currently under development, as well as the following courses:

- ART-4120 B.F.A. Project & Exhibit 3 credits
- ARH-4720 Seminar in Contemporary Art Issues 3 credits

Total Credits: 84

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Media Arts (B.A.)

The B.A. in Media Arts will expose students to the full range of career opportunities through the media arts, with fewer credits than the B.F.A. in Media Arts. Students wanting to double-major might find this option more achievable. The B.A. in Media Arts will offer opportunities to explore the world of media and expression with emphases upon creative inquiry, collaboration, and adaptation to emerging technologies. Students will increase their familiarity with artistic and theoretical concepts associated with media and how it relates to many other academic disciplines.

### Required Core Courses (18 credits)

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ARH-3075 History of Media Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-1140 Design I 3 credits
- ART-2110 Introduction to Digital Media 3 credits

### Studio Elective (3 credits)

- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits
- ART-2301 Photography I 3 credits

### Advanced Art History Elective (Select one course; 3 credits)

- ARH-3015 Greek & Roman Art 3 credits
- ARH-3020 Art of the Renaissance 3 credits
- ARH-3060 Twentieth Century Art 3 credits
- ARH-3110 The Spiritual in Non-Western Art 3 credits
- ARH-3120 Art Criticism 3 credits
- ARH-3130 The History of Photography 3 credits
- ARH-3140 African Art 3 credits
- ARH-3150 Art of the Human Body 3 credits
- ARH-3210 Women in Art 3 credits
- ARH-4710 Special Topics in Art History 3 credits

## Advanced Non-Media Studio Electives (Select one course; 3 credits)

- ART-3031 Life Drawing 3 credits
- ART-3032 Advanced Drawing 3 credits
- ART-3040 Landscape Painting 3 credits
- ART-3222 Ceramics II 3 credits
- ART-3314 Advanced Printmaking 3 credits
- ART-3320 Monoprints 3 credits
- ART-4040 Advanced Photography 3 credits
- ART-4050 Advanced Painting 3 credits
- ART-4110 Visual Art & Performance 3 credits
- ART-4130 Advanced Sculpture 3 credits

## Advanced Media Electives (Select four courses; 12 credits)

- ART-4020 Advanced Digital Media 3 credits
- ART-4025 Advanced Digital Media: Documentary & Social Media 3 credits
- ART-4060 Advanced Digital: Graphic Design 3 credits
- ART-4070 Advanced Digital: Web Design for Artists 3 credits
- ART-4075 Advanced Digital: Animation & Motion Graphics 3 credits
- ART-4080 Advanced Digital Media: Intermedia 3 credits
- ART-4150 Advanced Digital: Video 3 credits
- ART-4710 Special Topics in Art 3 credits

## Required Capstone Courses (6 credits)

- ARH-4720 Seminar in Contemporary Art Issues 3 credits
- ART-XXXX Professional Skills for Media Artists (currently under development)

Total: 45 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Media Arts (B.F.A.)

The B.F.A. in Media Arts offers opportunities to explore the expanding world of media and expression. Emphases include creative inquiry, collaboration and adaptation to emerging technologies. Courses include image processing, animation, video and new media. The program requires 60 credit hours in visual, performing or interdisciplinary-related coursework. Students begin

with introductory courses intended to increase their familiarity with artistic and theoretical concepts associated with media and art. As students progress through the program, they are required to take more specialized courses. Seniors are required to create a B.F.A. thesis exhibition for public display. Once admitted into the B.F.A. program via their B.F.A. review, students must achieve grades of B- or higher in all ART and ARH courses.

This program includes lectures, lab hours, collaborative projects and public presentations. Students are immersed in the Media Arts Research Studio (MARS), which houses state-of-the-art hardware, software and printing services. Admission to the program (generally in the sophomore or junior year) must be followed by a minimum of three semesters of studio work before the thesis exhibition. A student is admitted into the program only upon recommendation by the studio arts faculty and approval by the chairperson, following a successful portfolio review. Once admitted into the B.F.A. program via their B.F.A. review, students must achieve grades of B- or higher in all ART and ARH courses. All majors must participate in the monthly B.F.A. critiques held in the Visual Arts Center Gallery.

Each candidate for the B.F.A. must present a senior thesis and talk during the final year of study. This thesis is prepared under the guidance and supervision of the art faculty and must demonstrate proficiency in the chosen area of concentration.

## Learning Outcomes

### Graduating students should be able to:

1. Develop language and techniques for creating and critiquing media.
2. Learn how to use computers and software for creative purposes.
3. Learn a variety of conceptual, design and experimental art-based principles.
4. Introduce the history and criticism surrounding new media.
5. Discover more about themselves and methods of self-expression through art and media.

## Required Courses (21 credits)

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits
- ART-2301 Photography I 3 credits

## Advanced Art History Electives (6 credits)

(Take ARH-3075 and one additional course)

- ARH-3075 History of Media Art 3 credits
- ARH-3015 Greek & Roman Art 3 credits
- ARH-3020 Art of the Renaissance 3 credits
- ARH-3060 Twentieth Century Art 3 credits
- ARH-3110 The Spiritual in Non-Western Art 3 credits
- ARH-3120 Art Criticism 3 credits
- ARH-3130 The History of Photography 3 credits
- ARH-3140 African Art 3 credits

- ARH-3150 Art of the Human Body 3 credits
- ARH-3210 Women in Art 3 credits
- ARH-4710 Special Topics in Art History 3 credits

## Advanced Non-Media Studio Electives (6 credits)

(Select 2 different courses)

- ART-3031 Life Drawing 3 credits
- ART-3032 Advanced Drawing 3 credits
- ART-3040 Landscape Painting 3 credits
- ART-3222 Ceramics II 3 credits
- ART-3314 Advanced Printmaking 3 credits
- ART-3320 Monoprints 3 credits
- ART-4040 Advanced Photography 3 credits
- ART-4050 Advanced Painting 3 credits
- ART-4110 Visual Art & Performance 3 credits
- ART-4130 Advanced Sculpture 3 credits
- ART-4710 Special Topics in Non-Media Studio Arts 3 credits

## Advanced Media Electives (15 credits)

(Select 5 different courses)

- ART-4020 Advanced Digital Media 3 credits
- ART-4025 Advanced Digital Media: Documentary & Social Media 3 credits
- ART-4060 Advanced Digital: Graphic Design 3 credits
- ART-4070 Advanced Digital: Web Design for Artists 3 credits
- ART-4075 Advanced Digital: Animation & Motion Graphics 3 credits
- ART-4080 Advanced Digital Media: Intermedia 3 credits
- ART-4150 Advanced Digital: Video 3 credits
- ART-4710 Special Topics in Media Arts 3 credits

## Extended Media Experience (3 credits)

(Select one ART-4110 Visual Art & Performance course)

- ART-4810 Internship in Art 1-12 credits (3 credits)
- ENV-3310 Applications in GIS 4 credits
- MUS-2160 Introduction to Technology in Music 2 credits

## Required Capstone Courses (9 credits)

- ARH-4720 Seminar in Contemporary Art Issues 3 credits

- ART-4120 B.F.A. Project & Exhibit 3 credits
- ART-4730 B.F.A. Seminar 3 credits

**Total: 60 credits**

- *Grades for ART-4120 B.F.A. Project & Exhibit will be determined by the thesis advisor in consultation with the full department.*
- *Once admitted into the BFA program via their BFA Review, students must achieve grades of B- or higher in all ART and ARH courses.*

**Important:**

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Music (B.A.): Composition concentration**

Music students in the Composition concentration explore "the language of music" -- how melody, harmony and rhythm come together to make a piece of music pleasing to the ear -- and compose their own music. Through classes in ear training, students learn to write down chords and melodies they hear and to analyze the structure of musical pieces. **Students graduate with a B.A. in Music with a concentration in Composition.**

## **Music Programs at JSC**

The B.A. in Music at JSC offers five concentrations in which students can specialize: Composition, Creative Pathways (self-designed program), Instrumental Performance, Sound Engineering and Vocal Performance. Students graduate with a B.A. in Music with a concentration in their area of specialization. All programs are designed for students who already have basic proficiency in an instrument or voice; who are interested in advanced training in areas of technique, music theory, music skills, composition, history and style; and who are seriously interested in pursuing advanced degrees or careers in music and the music industry. All concentrations include a senior project or capstone experience designed to help engage the student in thoughtful decision making regarding post-collegiate activities in music. An audition is required for entry to the major and all majors need to demonstrate fundamental proficiency in music before beginning the music theory core.

## **Learning Outcomes**

Graduating students will have:

1. An understanding of the common elements and organizational patterns of music (rhythm, melody, harmony, structure, timbre, texture) and their interaction, and be able to employ this understanding in aural, verbal and visual analyses. As part of this process, students will develop their skills in musical notation and aural dictation.
2. An understanding of and the ability to read and realize musical notation at sight in both keyboard and the primary instrument (or a secondary instrument if piano is the primary instrument) with fluency, demonstrating both musicianship and proficiency necessary to the student's chosen concentration.
3. An understanding of and capability with musical forms, compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces. Students will use this knowledge and skill in compositional, performance, analytical, scholarly, and pedagogical applications.
4. Basic knowledge of music history, an acquaintance with a wide selection of musical literature through to the present time, and the ability to place music in historical, cultural and stylistic contexts.

5. The ability to form and defend value judgments about music, and to communicate musical ideas, concepts, and requirements to professionals and laypersons related to the practice of the major field in both written and oral contexts, utilizing appropriate musical language/terminology.
6. Experienced growth in artistry, technical skills and knowledge of repertory (and the ability to perform from a cross-section of that repertory) requisite for artistic self-expression in performing on their primary instrument at a level consistent with the goals and objectives of their chosen concentration in both solo and ensemble contexts through regular solo and ensemble rehearsals and performances of various sizes and nature. Students are expected to combine these attributes with appropriate rehearsal and conducting skills sufficient to work both collaboratively and as a leader on matters of musical interpretation.

## Required Core Music Courses (41-42 credits)

- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1231 Music Theory I 3 credits
- The above courses should be taken concurrently.
  
- MUS-1052 Keyboard Harmony II 1 credits
- MUS-1062 Ear Training II 1 credits
- MUS-1232 Music Theory II 3 credits
- The above courses should be taken concurrently.
  
- MUS-2023 Ear Training III 1 credits
- MUS-2053 Keyboard Harmony III 1 credits
- MUS-2313 Music Theory III 3 credits
- The above courses should be taken concurrently.
  
- MUS-2024 Ear Training IV 1 credits
- MUS-2054 Keyboard Harmony IV 1 credits
- MUS-2314 Music Theory IV 3 credits
- The above courses should be taken concurrently.
  
- MUS-2160 Introduction to Technology in Music 2 credits **OR**
- MUS-3215 Technology for the Music Classroom 3 credits
  
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (4 credits required) \*
- MUS-3140 Arranging/Orchestration 3 credits
- MUS-3031 History of Western Music I 3 credits
- MUS-3032 History of Western Music II 3 credits
- MUS-3240 Applied Music Lessons 1 credits (6 credits required) (all in one primary instrument and includes a required lab) \*\*

*\* Enrollment in a Music Ensemble is required of all students for every semester as a music major. Every semester the primary ensemble must be consistent with the student's primary instrument (e.g., All voice primary students must enroll in a choral ensemble, all classical instrumentalists in Concert Band, all jazz/contemporary instrumentalists in one of the related contemporary ensembles.) There are no limits in secondary ensembles, which are encouraged of all music majors.*

*\*\* Music majors are automatically enrolled in an MUS-1120L Applied Music Lesson Lab for 0 credits each semester that they register for Applied Music/Voice Lessons until they complete the requirement.*

Note: Enrollment in End-of-Semester Jury Performance, for 0 credits, is required every semester in conjunction with the applied music lessons (with the exception of the first semester of applied instruction).

## Composition Concentration

### Required Concentration Courses (9 credits)

- MUS-3240 Applied Music Lessons 1 credits (4 credits required) (four semesters in composition)
- MUS-4720 Senior Recital 2 credits

\*In addition to the above courses and under the guidance of an academic advisor, students in the Composition concentration must also complete 3 credits of music electives at the 3000/4000-level.

Total: 50-51 credits

### Additional Recommended Courses

- Additional Applied Music Lessons in primary instrument and a second instrument (piano highly recommended).
- Additional Music Ensembles - All music majors are encouraged to register for more than one music ensemble for their primary instrument and/or for secondary and tertiary experiences.
- Students with an interest in jazz-based study are encouraged to take *Jazz in American*, *History of the Blues*, *Jazz Ensemble*, and *FYS: Songwriting* or *FYS: History and Culture of New Orleans*.
- It is recommended that all music majors take *QE: Conducting I* to fulfill the "quantitatively enriched" course requirement for Part II of the Quantitative Reasoning Graduation Standard.

## Keyboard Proficiency Exam Requirement

The Keyboard Proficiency Exam is required of all Music, Music Education, and Musical Theater majors. All students must pass the specific requirements of the keyboard proficiency examination for their major. The exam is held during the final weeks of each semester on the same day as end-of-semester juries; students may sign up for the exam two weeks prior to that date and should contact their academic advisor for more information.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Music (B.A.): Creative Pathways concentration

Creative Pathways is the "design-your-own-program" concentration of the B.A. in Music. Some examples of potential student pathway designs include music therapy, the psychology of music, music theory, music history/musicology, music publishing, and choral conducting. The program involves taking music lessons and spending long hours practicing and rehearsing. A senior

internship or capstone experience is required. **Students graduate with a B.A. in Music with a concentration in Creative Pathways.**

## Music Programs at JSC

The B.A. in Music at JSC offers five concentrations in which students can specialize: Composition, Creative Pathways (self-designed program), Instrumental Performance, Sound Engineering and Vocal Performance. Students graduate with a B.A. in Music with a concentration in their area of specialization. All programs are designed for students who already have basic proficiency in an instrument or voice; who are interested in advanced training in areas of technique, music theory, music skills, composition, history and style; and who are seriously interested in pursuing advanced degrees or careers in music and the music industry. All concentrations include a senior project or capstone experience designed to help engage the student in thoughtful decision making regarding post-collegiate activities in music. An audition is required for entry to the major and all majors need to demonstrate fundamental proficiency in music before beginning the music theory core.

## Learning Outcomes

Graduating students will have:

1. An understanding of the common elements and organizational patterns of music (rhythm, melody, harmony, structure, timbre, texture) and their interaction, and be able to employ this understanding in aural, verbal and visual analyses. As part of this process, students will develop their skills in musical notation and aural dictation.
2. An understanding of and the ability to read and realize musical notation at sight in both keyboard and the primary instrument (or a secondary instrument if piano is the primary instrument) with fluency, demonstrating both musicianship and proficiency necessary to the student's chosen concentration.
3. An understanding of and capability with musical forms, compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces. Students will use this knowledge and skill in compositional, performance, analytical, scholarly, and pedagogical applications.
4. Basic knowledge of music history, an acquaintance with a wide selection of musical literature through to the present time, and the ability to place music in historical, cultural and stylistic contexts.
5. The ability to form and defend value judgments about music, and to communicate musical ideas, concepts, and requirements to professionals and laypersons related to the practice of the major field in both written and oral contexts, utilizing appropriate musical language/terminology.
6. Experienced growth in artistry, technical skills and knowledge of repertory (and the ability to perform from a cross-section of that repertory) requisite for artistic self-expression in performing on their primary instrument at a level consistent with the goals and objectives of their chosen concentration in both solo and ensemble contexts through regular solo and ensemble rehearsals and performances of various sizes and nature. Students are expected to combine these attributes with appropriate rehearsal and conducting skills sufficient to work both collaboratively and as a leader on matters of musical interpretation.

## Required Core Music Courses (41-42 credits)

- MUS-1051 Keyboard Harmony I 1 credits
  - MUS-1061 Ear Training I 1 credits
  - MUS-1231 Music Theory I 3 credits
- The above courses should be taken concurrently.
- MUS-1052 Keyboard Harmony II 1 credits
  - MUS-1062 Ear Training II 1 credits
  - MUS-1232 Music Theory II 3 credits
- The above courses should be taken concurrently.

- MUS-2023 Ear Training III 1 credits
  - MUS-2053 Keyboard Harmony III 1 credits
  - MUS-2313 Music Theory III 3 credits
- The above courses should be taken concurrently.

- MUS-2024 Ear Training IV 1 credits
  - MUS-2054 Keyboard Harmony IV 1 credits
  - MUS-2314 Music Theory IV 3 credits
- The above courses should be taken concurrently.

- MUS-2160 Introduction to Technology in Music 2 credits **OR**
- MUS-3215 Technology for the Music Classroom 3 credits

- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (4 credits required) \*
- MUS-3140 Arranging/Orchestration 3 credits
- MUS-3031 History of Western Music I 3 credits
- MUS-3032 History of Western Music II 3 credits
- MUS-3240 Applied Music Lessons 1 credits (6 credits required) (all in one primary instrument and includes a required lab) \*\*

*\* Enrollment in a Music Ensemble is required of all students for every semester as a music major. Every semester the primary ensemble must be consistent with the student's primary instrument (e.g., All voice primary students must enroll in a choral ensemble, all classical instrumentalists in Concert Band, all jazz/contemporary instrumentalists in one of the related contemporary ensembles.) There are no limits in secondary ensembles, which are encouraged of all music majors.*

*\*\* Music majors are automatically enrolled in an MUS-1120L Applied Music Lesson Lab for 0 credits each semester that they register for Applied Music/Voice Lessons until they complete the requirement.*

Note: Enrollment in End-of-Semester Jury Performance, for 0 credits, is required every semester in conjunction with the applied music lessons (with the exception of the first semester of applied instruction).

## Creative Pathways Concentration

### Required Concentration Courses (11 credits)

- Students must complete 9 credits of music electives under the guidance of an academic advisor.
- Students will complete a 2-credit senior project in music guided under the senior recital course. This project is designed with the aid of the academic advisor to be relevant to the student's desired pathway. It should include both written and oral components.

**Total: 52-53 credits**

### Additional Recommended Courses

- Additional Applied Music Lessons in primary instrument and a second instrument (piano highly recommended).
- Additional Music Ensembles -- All music majors are encouraged to register for more than one music ensemble for their primary instrument and/or for secondary and tertiary experiences.
- Students with an interest in jazz-based study are encouraged to take *Jazz in America*, *History of the Blues*, *Jazz Ensemble*, and *FYS: Songwriting* or *FYS: History and Culture of New Orleans*.
- It is recommended that all music majors take *QE: Conducting I* to fulfill the "quantitatively enriched" course requirement for Part II of the Quantitative Reasoning Graduation Standard.
- Non-major courses as relevant to the student's focus area (e.g., psychology for music therapy, business courses for music business and publishing, creative writing for songwriting, etc.).  
MUS-XXXX, Music electives under the guidance of an advisor (9 credits)
- MUS-4810 Internship in Music 1-12 credits (2 credits)

## Keyboard Proficiency Exam Requirement

The Keyboard Proficiency Exam is required of all Music, Music Education, and Musical Theater majors. All students must pass the specific requirements of the keyboard proficiency examination for their major. The exam is held during the final weeks of each semester on the same day as end-of-semester juries; students may sign up for the exam two weeks prior to that date and should contact their academic advisor for more information.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Music (B.A.): Instrumental Performance concentration

Students in this program graduate with a **B.A. in Music with a concentration in Instrumental Performance**.

### Music Programs at JSC

The B.A. in Music at JSC offers five concentrations in which students can specialize: Composition, Creative Pathways (self-designed program), Instrumental Performance, Sound Engineering and Vocal Performance. Students graduate with a B.A. in Music with a concentration in their area of specialization. All programs are designed for students who already have basic proficiency in an instrument or voice; who are interested in advanced training in areas of technique, music theory, music skills, composition, history and style; and who are seriously interested in pursuing advanced degrees or careers in music and the music industry. All concentrations include a senior project or capstone experience designed to help engage the student in thoughtful decision making regarding post-collegiate activities in music. An audition is required for entry to the major and all majors need to demonstrate fundamental proficiency in music before beginning the music theory core.

## Learning Outcomes

Graduating students will have:

1. An understanding of the common elements and organizational patterns of music (rhythm, melody, harmony, structure, timbre, texture) and their interaction, and be able to employ this understanding in aural, verbal and visual analyses. As part of this process, students will develop their skills in musical notation and aural dictation.

2. An understanding of and the ability to read and realize musical notation at sight in both keyboard and the primary instrument (or a secondary instrument if piano is the primary instrument) with fluency, demonstrating both musicianship and proficiency necessary to the student's chosen concentration.
3. An understanding of and capability with musical forms, compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces. Students will use this knowledge and skill in compositional, performance, analytical, scholarly, and pedagogical applications.
4. Basic knowledge of music history, an acquaintance with a wide selection of musical literature through to the present time, and the ability to place music in historical, cultural and stylistic contexts.
5. The ability to form and defend value judgments about music, and to communicate musical ideas, concepts, and requirements to professionals and laypersons related to the practice of the major field in both written and oral contexts, utilizing appropriate musical language/terminology.
6. Experienced growth in artistry, technical skills and knowledge of repertory (and the ability to perform from a cross-section of that repertory) requisite for artistic self-expression in performing on their primary instrument at a level consistent with the goals and objectives of their chosen concentration in both solo and ensemble contexts through regular solo and ensemble rehearsals and performances of various sizes and nature. Students are expected to combine these attributes with appropriate rehearsal and conducting skills sufficient to work both collaboratively and as a leader on matters of musical interpretation.

## Required Core Music Courses (41-42 credits)

- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1231 Music Theory I 3 credits
- The above courses should be taken concurrently.
  
- MUS-1052 Keyboard Harmony II 1 credits
- MUS-1062 Ear Training II 1 credits
- MUS-1232 Music Theory II 3 credits
- The above courses should be taken concurrently.
  
- MUS-2023 Ear Training III 1 credits
- MUS-2053 Keyboard Harmony III 1 credits
- MUS-2313 Music Theory III 3 credits
- The above courses should be taken concurrently.
  
- MUS-2024 Ear Training IV 1 credits
- MUS-2054 Keyboard Harmony IV 1 credits
- MUS-2314 Music Theory IV 3 credits
- The above courses should be taken concurrently.
  
- MUS-2160 Introduction to Technology in Music 2 credits **OR**
- MUS-3215 Technology for the Music Classroom 3 credits
  
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (4 credits required) \*
- MUS-3140 Arranging/Orchestration 3 credits
- MUS-3031 History of Western Music I 3 credits
- MUS-3032 History of Western Music II 3 credits
- MUS-3240 Applied Music Lessons 1 credits (6 credits required) (all in one primary instrument and includes a required lab) \*\*

*\* Enrollment in a Music Ensemble is required of all students for every semester as a music major. Every semester the primary ensemble must be consistent with the student's primary instrument (e.g., All voice primary students must enroll in a choral ensemble, all classical instrumentalists in Concert Band, all jazz/contemporary instrumentalists in one of the related contemporary ensembles.) There are no limits in secondary ensembles, which are encouraged of all music majors.*

*\*\* Music majors are automatically enrolled in an MUS-1120L Applied Music Lesson Lab for 0 credits each semester that they register for Applied Music/Voice Lessons until they complete the requirement.*

Note: Enrollment in End-of-Semester Jury Performance, for 0 credits, is required every semester in conjunction with the applied music lessons (with the exception of the first semester of applied instruction).

## Instrumental Performance Concentration

### Required Concentration Courses (7 credits)

- MUS-3240 Applied Music Lessons 1 credits (in primary instrument and for 2 credits above core requirement)
  - MUS-4720 Senior Recital 2 credits
- \*In addition to the above courses, students in the Instrumental Performance concentration also need to take 3 credits of music electives at the 3000/4000 level under the guidance of an academic advisor.

**Total: 48-49 credits**

### Additional Recommended Courses

- Additional Applied Music Lessons in primary instrument and a second instrument (piano highly recommended).
- Additional Music Ensembles - All music majors are encouraged to register for more than one music ensemble for their primary instrument and/or for secondary and tertiary experiences.
- Students with an interest in jazz-based study are encouraged to take *Jazz in American*, *History of the Blues*, *Jazz Ensemble*, and *FYS: Songwriting* or *FYS: History and Culture of New Orleans*.
- It is recommended that all music majors take *QE: Conducting I* to fulfill the "quantitatively enriched" course requirement for Part II of the Quantitative Reasoning Graduation Standard.

## Keyboard Proficiency Exam Requirement

The Keyboard Proficiency Exam is required of all Music, Music Education, and Musical Theater majors. All students must pass the specific requirements of the keyboard proficiency examination for their major. The exam is held during the final weeks of each semester on the same day as end-of-semester juries; students may sign up for the exam two weeks prior to that date and should contact their academic advisor for more information.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Music (B.A.): Sound Engineering concentration

Students in this concentration focus on the "science of sound" using state-of-the-art equipment in Dibden Center for the Arts, JSC's digital recording studio and the college's music technology lab. A senior internship or capstone experience is required.

**Students graduate with a B.A. in Music with a concentration in Sound Engineering.**

### Music Programs at JSC

The B.A. in Music at JSC offers five concentrations in which students can specialize: Composition, Creative Pathways (self-designed program), Instrumental Performance, Sound Engineering and Vocal Performance. Students graduate with a B.A. in Music with a concentration in their area of specialization. All programs are designed for students who already have basic proficiency in an instrument or voice; who are interested in advanced training in areas of technique, music theory, music skills, composition, history and style; and who are seriously interested in pursuing advanced degrees or careers in music and the music industry. All concentrations include a senior project or capstone experience designed to help engage the student in thoughtful decision making regarding post-collegiate activities in music. An audition is required for entry to the major and all majors need to demonstrate fundamental proficiency in music before beginning the music theory core.

## Learning Outcomes

Graduating students will have:

1. An understanding of the common elements and organizational patterns of music (rhythm, melody, harmony, structure, timbre, texture) and their interaction, and be able to employ this understanding in aural, verbal and visual analyses. As part of this process, students will develop their skills in musical notation and aural dictation.
2. An understanding of and the ability to read and realize musical notation at sight in both keyboard and the primary instrument (or a secondary instrument if piano is the primary instrument) with fluency, demonstrating both musicianship and proficiency necessary to the student's chosen concentration.
3. An understanding of and capability with musical forms, compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces. Students will use this knowledge and skill in compositional, performance, analytical, scholarly, and pedagogical applications.
4. Basic knowledge of music history, an acquaintance with a wide selection of musical literature through to the present time, and the ability to place music in historical, cultural and stylistic contexts.
5. The ability to form and defend value judgments about music, and to communicate musical ideas, concepts, and requirements to professionals and laypersons related to the practice of the major field in both written and oral contexts, utilizing appropriate musical language/terminology.
6. Experienced growth in artistry, technical skills and knowledge of repertory (and the ability to perform from a cross-section of that repertory) requisite for artistic self-expression in performing on their primary instrument at a level consistent with the goals and objectives of their chosen concentration in both solo and ensemble contexts through regular solo and ensemble rehearsals and performances of various sizes and nature. Students are expected to combine these attributes with appropriate rehearsal and conducting skills sufficient to work both collaboratively and as a leader on matters of musical interpretation.

### Required Core Music Courses (41-42 credits)

- MUS-1051 Keyboard Harmony I 1 credits
  - MUS-1061 Ear Training I 1 credits
  - MUS-1231 Music Theory I 3 credits
- The above courses should be taken concurrently.
- MUS-1052 Keyboard Harmony II 1 credits

- MUS-1062 Ear Training II 1 credits
  - MUS-1232 Music Theory II 3 credits
- The above courses should be taken concurrently.
- MUS-2023 Ear Training III 1 credits
  - MUS-2053 Keyboard Harmony III 1 credits
  - MUS-2313 Music Theory III 3 credits
- The above courses should be taken concurrently.
- MUS-2024 Ear Training IV 1 credits
  - MUS-2054 Keyboard Harmony IV 1 credits
  - MUS-2314 Music Theory IV 3 credits
- The above courses should be taken concurrently.
- MUS-2160 Introduction to Technology in Music 2 credits **OR**
  - MUS-3215 Technology for the Music Classroom 3 credits
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (4 credits required) \*
  - MUS-3140 Arranging/Orchestration 3 credits
  - MUS-3031 History of Western Music I 3 credits
  - MUS-3032 History of Western Music II 3 credits
  - MUS-3240 Applied Music Lessons 1 credits (6 credits required) (all in one primary instrument and includes a required lab) \*\*

*\* Enrollment in a Music Ensemble is required of all students for every semester as a music major. Every semester the primary ensemble must be consistent with the student's primary instrument (e.g., All voice primary students must enroll in a choral ensemble, all classical instrumentalists in Concert Band, all jazz/contemporary instrumentalists in one of the related contemporary ensembles.) There are no limits in secondary ensembles, which are encouraged of all music majors.*

*\*\* Music majors are automatically enrolled in an MUS-1120L Applied Music Lesson Lab for 0 credits each semester that they register for Applied Music/Voice Lessons until they complete the requirement.*

Note: Enrollment in End-of-Semester Jury Performance, for 0 credits, is required every semester in conjunction with the applied music lessons (with the exception of the first semester of applied instruction).

## Sound Engineering Concentration

### Required Concentration Courses (9-20 credits)

- MUS-2231 Studio Recording I 3 credits
- MUS-3272 Studio Recording II 3 credits
- MUS-4020 Final Production in Studio Recording 2 credits
- MUS-4810 Internship in Music 1-12 credits

Total: 50-62 credits

## Additional Recommended Courses

- Additional Applied Music Lessons in primary instrument and a second instrument (piano highly recommended).
- Additional Music Ensembles - All music majors are encouraged to register for more than one music ensemble for their primary instrument and/or for secondary and tertiary experiences.
- Students with an interest in jazz-based study are encouraged to take *Jazz in American*, *History of the Blues*, *Jazz Ensemble*, and *FYS: Songwriting* or *FYS: History and Culture of New Orleans*.
- It is recommended that all music majors take *QE: Conducting I* to fulfill the "quantitatively enriched" course requirement for Part II of the Quantitative Reasoning Graduation Standard.

## Keyboard Proficiency Exam Requirement

The Keyboard Proficiency Exam is required of all Music, Music Education, and Musical Theater majors. All students must pass the specific requirements of the keyboard proficiency examination for their major. The exam is held during the final weeks of each semester on the same day as end-of-semester juries; students may sign up for the exam two weeks prior to that date and should contact their academic advisor for more information.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Music (B.A.): Vocal Performance concentration

Students in this program graduate with a **B.A. in Music with a concentration in Vocal Performance**.

## Music Programs at JSC

The B.A. in Music at JSC offers five concentrations in which students can specialize: Composition, Creative Pathways (self-designed program), Instrumental Performance, Sound Engineering and Vocal Performance. Students graduate with a B.A. in Music with a concentration in their area of specialization. All programs are designed for students who already have basic proficiency in an instrument or voice; who are interested in advanced training in areas of technique, music theory, music skills, composition, history and style; and who are seriously interested in pursuing advanced degrees or careers in music and the music industry. All concentrations include a senior project or capstone experience designed to help engage the student in thoughtful decision making regarding post-collegiate activities in music. An audition is required for entry to the major and all majors need to demonstrate fundamental proficiency in music before beginning the music theory core.

## Learning Outcomes

Graduating students will have:

1. An understanding of the common elements and organizational patterns of music (rhythm, melody, harmony, structure, timbre, texture) and their interaction, and be able to employ this understanding in aural, verbal and visual analyses. As part of this process, students will develop their skills in musical notation and aural dictation.
2. An understanding of and the ability to read and realize musical notation at sight in both keyboard and the primary instrument (or a secondary instrument if piano is the primary instrument) with fluency, demonstrating both musicianship and proficiency necessary to the student's chosen concentration.

3. An understanding of and capability with musical forms, compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces. Students will use this knowledge and skill in compositional, performance, analytical, scholarly, and pedagogical applications.
4. Basic knowledge of music history, an acquaintance with a wide selection of musical literature through to the present time, and the ability to place music in historical, cultural and stylistic contexts.
5. The ability to form and defend value judgments about music, and to communicate musical ideas, concepts, and requirements to professionals and laypersons related to the practice of the major field in both written and oral contexts, utilizing appropriate musical language/terminology.
6. Experienced growth in artistry, technical skills and knowledge of repertory (and the ability to perform from a cross-section of that repertory) requisite for artistic self-expression in performing on their primary instrument at a level consistent with the goals and objectives of their chosen concentration in both solo and ensemble contexts through regular solo and ensemble rehearsals and performances of various sizes and nature. Students are expected to combine these attributes with appropriate rehearsal and conducting skills sufficient to work both collaboratively and as a leader on matters of musical interpretation.

## Required Core Music Courses (41-42 credits)

- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1231 Music Theory I 3 credits
- The above courses should be taken concurrently.
  
- MUS-1052 Keyboard Harmony II 1 credits
- MUS-1062 Ear Training II 1 credits
- MUS-1232 Music Theory II 3 credits
- The above courses should be taken concurrently.
  
- MUS-2023 Ear Training III 1 credits
- MUS-2053 Keyboard Harmony III 1 credits
- MUS-2313 Music Theory III 3 credits
- The above courses should be taken concurrently.
  
- MUS-2024 Ear Training IV 1 credits
- MUS-2054 Keyboard Harmony IV 1 credits
- MUS-2314 Music Theory IV 3 credits
- The above courses should be taken concurrently.
  
- MUS-2160 Introduction to Technology in Music 2 credits **OR**
- MUS-3215 Technology for the Music Classroom 3 credits
  
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (4 credits required) \*
- MUS-3140 Arranging/Orchestration 3 credits
- MUS-3031 History of Western Music I 3 credits
- MUS-3032 History of Western Music II 3 credits
- MUS-3240 Applied Music Lessons 1 credits (6 credits required) (all in one primary instrument and includes a required lab) \*\*

*\* Enrollment in a Music Ensemble is required of all students for every semester as a music major. Every semester the primary ensemble must be consistent with the student's primary instrument (e.g., All voice primary students must enroll in a choral ensemble, all classical instrumentalists in Concert Band, all jazz/contemporary instrumentalists in one of the related contemporary ensembles.) There are no limits in secondary ensembles, which are encouraged of all music*

*majors.*

*\*\* Music majors are automatically enrolled in an MUS-1120L Applied Music Lesson Lab for 0 credits each semester that they register for Applied Music/Voice Lessons until they complete the requirement.*

Note: Enrollment in End-of-Semester Jury Performance, for 0 credits, is required every semester in conjunction with the applied music lessons (with the exception of the first semester of applied instruction).

## Vocal Performance Concentration

### Required Concentration Courses (8 credits)

- MUS-2040 Foreign Language Diction 2 credits
- MUS-3060 Vocal Pedagogy 2 credits
- MUS-3240 Applied Music Lessons 1 credits (2 credits) (for 2 credits above the core requirement)
- MUS-4720 Senior Recital 2 credits

Total: 49-50 credits

### Additional Recommended Courses

- DAN-1010 Fundamentals of Dance 3 credits
- DAN-2131 Ballet 3 credits
- FRE-1111 French I 3 credits
- FRE-1111L French I Lab 1 credits
- FRE-1112 French II 3 credits
- FRE-1112L French II Lab 1 credits
- MUS-3230 Survey of American Musical Theater 3 credits
- MUS-3260 Music Theater Workshop 3 credits
- Additional Applied Music Lessons in voice as well as lessons in a second instrument (piano highly recommended).
- Additional Music Ensembles - All music majors are encouraged to register for more than one music ensemble for their primary instrument and/or for secondary and tertiary experiences.
- Students with an interest in vocal jazz are encouraged to take *Jazz in American*, *History of the Blues*, and *FYS: Songwriting* or *FYS: History and Culture of New Orleans*.
- It is recommended that all music majors take *QE: Conducting I* to fulfill the "quantitatively enriched" course requirement for Part II of the Quantitative Reasoning Graduation Standard.
- THA-1041 Introduction to Theater Arts 3 credits
- THA-2121 Acting I 3 credits
- THA-2121L Acting I Lab 1 credits

## Keyboard Proficiency Exam Requirement

The Keyboard Proficiency Exam is required of all Music, Music Education, and Musical Theater majors. All students must pass the specific requirements of the keyboard proficiency examination for their major. The exam is held during the final weeks of each semester on the same day as end-of-semester juries; students may sign up for the exam two weeks prior to that date and should contact their academic advisor for more information.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Music Education (B.M.E.)

The Music Education major assists students with the application for State of Vermont Certification for all specializations in Music, grades PK-12. This program guides students through the licensure procedures from the earliest levels of their collegiate education through to the completion of the student teaching internship, and includes requirements in instrumental, choral, and general music methods. The hallmark of the program is the comprehensive nature of the major supported by strong curricular sequencing of the course work.

The Music Education Department of Johnson State College endeavors to create an inviting learning environment that provides a systematic, experience-based curriculum in the areas of self-reflection, curiosity, and enthusiasm in its future educators. Successful music educators exhibit personal qualities of leadership, intellectual curiosity, and social commitment. They approach life, music, and the teaching profession in a positive, creative, and enthusiastic way.

Musicians are most successful as teachers if they understand current structures, systems, and practices in education. The music educator in this age of educational change and accountability must be able to express knowledge of teaching and learning through verbal communication and through overt, demonstrable high-level musical and teaching skills. Johnson State College graduates plan and implement effective, developmentally-appropriate lessons and curricula based upon sound principles of content knowledge, skill development, and pedagogy. They employ the National Standards in Music Education and use appropriate materials and strategies to develop students' critical thinking, problem solving, and performance skills, all while conveying their deep love of music.

Johnson State College faculty are dedicated to preparing its candidates for careers as professional music educators and to emulate and convey the following principles: pursuing excellence in education; a commitment to diversity and cultural awareness; and excellence in musicianship, pedagogy, research and scholarship. Music educators from JSC enter the field with the skills, knowledge, confidence, and enthusiasm to successfully provide their future students with a complete and fulfilling musical experience.

### Learning Outcomes:

Music Education majors have student learning outcomes provided in the B.A. in Music program, the Department of Education, and those provided below specific to the Music Education major. These learning outcomes are consistent with guidelines from the National Associations of Schools of Music and licensure requirements for the State of Vermont.

1. Knowledge, performance ability, and pedagogical skills sufficient to teach students effective use of instruments and/or voice.
2. Knowledge of content, methodologies, philosophies, materials, technologies, and curriculum development in music education for the general music, instrumental, and vocal music settings in grades K-12.
3. Demonstrate the ability to teach technique and lead performance-based instruction in a variety of settings including individual and small group and large group ensembles for both instruments and voices.
4. Performance ability sufficient to use at least one instrument as a teaching tool and to provide, transpose, and improvise accompaniments.

5. Ability to teach music at various levels to different age groups and in a variety of classroom and ensemble settings in ways that develop knowledge of how music works syntactically as a communication medium and developmentally as an agent of civilization. This set of abilities includes effective classroom and rehearsal management.
6. An understanding of child growth and development and an understanding of principles of learning as they relate to music.
7. An understanding of evaluative techniques and ability to apply them in assessing both the musical progress of students and the objectives and procedures of the curriculum.

All students shall demonstrate these learning outcomes by:

1. Successfully completing the Praxis II exam for the Music Content area with a score that meets the Vermont Certification Guidelines,
2. Developing well-organized, standards-based lessons and unit plans in all content areas of certification (K-12 instrumental, choral & general music),
3. Demonstrating the teaching skills expected of a beginning music educator through required peer teaching activities, practicum, and student teaching experiences,
4. Successfully completing the licensure portfolio required by the College and for Vermont State Certification.

To earn a Bachelor of Music Education, students must complete the B.A. music performance core requirements, the music education requirements, and the Department of Education course requirements. In addition, students must complete the General Education requirements outlined below.

## Music Performance Core Requirements (39-41 credits)

### Required Courses

- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1231 Music Theory I 3 credits
- The above courses should be taken concurrently.
  
- MUS-1052 Keyboard Harmony II 1 credits
- MUS-1062 Ear Training II 1 credits
- MUS-1232 Music Theory II 3 credits
- The above courses should be taken concurrently.
  
- MUS-2053 Keyboard Harmony III 1 credits
- MUS-2023 Ear Training III 1 credits
- MUS-2313 Music Theory III 3 credits
- The above courses should be taken concurrently.
  
- MUS-2054 Keyboard Harmony IV 1 credits
- MUS-2024 Ear Training IV 1 credits
- MUS-2314 Music Theory IV 3 credits
- The above courses should be taken concurrently.
  
- MUS-2040 Foreign Language Diction 2 credits (Only required for voice primary students; recommended for others)
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (Required every semester) (must complete 3 credits in total)
- MUS-3031 History of Western Music I 3 credits
- MUS-3032 History of Western Music II 3 credits

- MUS-3140 Arranging/Orchestration 3 credits
- MUS-3240 Applied Music Lessons 1 credits (6 credits in one primary voice or instrument required)
- MUS-3510 Junior Recital 1 credits

## Music Education Core Requirements

\*Students must earn a B- or better in all the Music Education Core Requirement courses.

### Required Music Education Tool Courses (9 credits)

- MUS-3215 Technology for the Music Classroom 3 credits
- MUS-3401 Conducting I 3 credits
- MUS-3402 Conducting II 3 credits

### Required Instrumental Music Methods Courses (9 credits)

- MUS-2361 Instrumental Techniques I 3 credits
- MUS-2362 Instrumental Techniques II 3 credits
- MUS-3240 Applied Music Lessons 1 credits (in Strings)
- MUS-3310 Band Methods 2 credits

### Required Vocal Music Methods Courses (7 credits)

- MUS-3060 Vocal Pedagogy 2 credits
- MUS-3080 Choral Literature 2 credits
- MUS-3270 Choral Methods 3 credits

### Required General Music Methods Courses (8 credits)

- MUS-2250 Introduction to Music Education 2 credits
- MUS-3160 Elementary School Music Methods 3 credits
- MUS-3210 Secondary School Music Methods 3 credits

## Department of Education Course Requirements (33 credits)

\*Students must earn a B- or better in all the courses within the Department of Education Course Requirements.

\*All Music Education majors are waived from taking the Department of Education "Perspectives on Learning" course.

- EDU-2365 The Ecology of Human Experience: Development, Culture & Identity 3 credits
- EDU-2370 The Contemporary School 3 credits
- EDU-3112 Instructional Dynamics for the Elementary Educator: Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Learners; Part III: Unified Arts for Diverse Learners 3 credits

- EDU-3311 Foundations of Inclusive Practices 3 credits
- EDU-3440 Teaching Toward Democracy 3 credits
- EDU-4310 The Art of Experience in Education: Designing for Engagement & Accomplishment through the Unified Arts 3 credits
- EDU-4650 Capstone & Thesis Seminar 3 credits
- EDU-4812 Unified Arts Student Teaching 12 credits

In addition to the above courses, students must complete the following Teacher Education Workshops:

- EDU-TEW1 Teacher Education Workshop 1: Introduction to Teacher Education 0 credits
- EDU-TEW2 Teacher Education Workshop 2: Application for Practicum I 0 credits
- EDU-TEW3 Teacher Education Workshop 3: Application for Practicum II 0 credits
- EDU-TEW4 Teacher Education Workshop 4: Application for student teaching 0 credits
- EDU-TEW5 Teacher Education Workshop 5: Application for a Verification Check 0 credits

## General Education Requirements (21-23 additional credits)

### Foundation Skills (18-20 credits):

ENG-1071, College Writing (3 cr.)

ENG-1072, Exposition & Analysis (3 cr.)

Two math courses or Calculus (4-6 cr.)

First-Year Seminar (3 cr.)

Creative Audience (2 semesters at .5 cr. each semester)

A lab science course (4 cr.)

A "QE" (Quantitatively Enriched) course (3 cr.) [\*MUS-3401, QE: Conducting I, meets this requirement.]

### Integrative Perspectives (3 additional credits)

Aesthetic Perspective: Fulfilled by major requirements above.

Social & Historical Perspective: Fulfilled by major requirements above.

Global Perspective: 3 credits needed; Music Education majors are highly encouraged to take MUS-3330, Worlds of Music.

Civic Perspective: Fulfilled by student teaching internship requirement within the major.

## Proficiencies, Juries, and Praxis Exam Schedule

### First Year

Jury: Spring only

### Second Year

Jury: Both fall and spring semesters

Piano Proficiency: End of spring semester as part of Keyboard Harmony course.

Praxis I Exam: Should be completed as soon as student has finished the Johnson math requirements (recommended spring of Year 2)

### **Third Year**

Jury: Both fall and spring semesters

### **Prior to Student Teaching**

All course requirements, recitals, pre-student teaching portfolio, and the Praxis II Exam must be completed. Additionally, Music Education majors must have a total earned GPA of 3.00 or higher, or have received certification of academic competence by the Provost or his/her designee.

## **Important:**

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Musical Theater (B.A.)**

The B.A. in musical theater will link already-existing programs in theater, music and dance, relying primarily on present resources in the Performing Arts Department and creating several new classes unique to the demands of singer/actor training, a market whose growth in the New England area has been quite sturdy in the past decade. The program will require 55 credits in theater and music, including up to 3 classes in dance and an internship. This degree brings theater, music and dance together in a collaboration designed to enhance the employment possibilities/potential of singer/actors and widen their career prospects as performers, training them to compete in the musical theater market.

## **Learning Outcomes for Musical Theater Majors**

1. Demonstrate fluency in all facets of theater/music including writing, speech, sight reading and performance.
2. Possess the verbal and writing skills to analyze, criticize and interpret both music and play script.
3. Master skills of acting, singing and dance both on and off the stage.
4. Articulate the role of musical theater and theater in creating and sustaining community and local culture.
5. Describe and apply knowledge of audience development, theater production and the economic sustainability of a theater company or service.

## **Theater Requirements (19 credits)**

- THA-1041 Introduction to Theater Arts 3 credits
- THA-2035 Costume Construction & Stage Makeup 3 credits
  
- THA-2121 Acting I 3 credits **AND**
- THA-2121L Acting I Lab 1 credits \*
  
- THA-2122 Acting II 3 credits
- THA-3123 Acting III 3 credits
- THA-4730 Seminar in Professional Preparation for the Actor 3 credits

*\*Students registering for THA-2121, Acting I, must also register for THA-2121L, Acting I Lab, for 1 credit.*

## Music Requirements (15 credits)

- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1120 Applied Music Lessons 0.5 credits **AND/OR**
- MUS-3240 Applied Music Lessons 1 credits (For a total of 8 credits) \*\*
- MUS-1120L Applied Music Lesson Lab 0 credits (Required for every semester of applied study; 8 semesters of enrollment required, more will be accrued if the student has subsequent semesters of applied study in voice.) \*\*
- MUS-1231 Music Theory I 3 credits
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (Four semesters of choral ensemble at .5 credits/semester for a total of 2 credits)

## Automatic enrollment in applied music lesson lab

\*\*Music majors are automatically enrolled in an MUS-1120L Applied Music Lesson Lab for 0 credits each semester that they are registered for Applied Music/Voice Lessons until they complete the requirement.

## Musical Theater Requirements (15 credits)

- MUS-2350 Music Theater Production 0 or 3 credits (6 credits) (take two times at 3 credits each)
- MUS-4010 Music Theater Production 0 or 3 credits (6 credits) (take two times at 3 credits each)
- MUS-3230 Survey of American Musical Theater 3 credits
- MUS-3260 Music Theater Workshop 3 credits (6 credits) (take two times at 3 credits each)

## Dance Requirements (minimum of 6 credits)

(6 credits minimum\* from the following courses, based on dance placement)

\*Through a combination of demonstrated proficiency in the freshman musical theater dance placement and dance course enrollment, musical theater majors must demonstrate fundamental skills in a minimum of three dance styles from the following: Jazz, Tap and Ballet or Modern Dance. A minimum of six credits is required in dance for the musical theater major; however, students with no previous dance experience may need up to 12 credits of dance instruction in order to demonstrate proficiency.

- DAN-1010 Fundamentals of Dance 3 credits
- DAN-1020 Fundamentals of Jazz Dance 3 credits
- DAN-1111 Modern Dance 3 credits
- DAN-2040 Beginning Tap Dance 2 credits
- DAN-2131 Ballet 3 credits
- DAN-3020 Intermediate Ballet: Technique & History 3 credits
- DAN-3112 Intermediate Modern Dance: Technique & History 3 credits
- DAN-3130 Jazz Dance 3 credits

- DAN-4130 Advanced Ballet/Modern Dance: Technique & History 3 credits

## Total: 55 credits

- Students who do not pass the MUS-1231 Music Theory I and Keyboard Placement Exams/Hearings will need to complete MUS-1030 Music Fundamentals, and MUS-1050 Elementary Piano Class, prior to enrolling in the MUS-1231 Music Theory I core courses.
- It is highly recommended that musical theater students have fundamental keyboard skills to aid in learning vocal lines.
- Musical Theater majors are expected to audition for the spring musical production every year that they are enrolled as a musical theater major.

## Keyboard Proficiency Exam Requirement

The Keyboard Proficiency Exam is required of all Music, Music Education, and Musical Theater majors. All students must pass the specific requirements of the keyboard proficiency examination for their major. The exam is held during the final weeks of each semester on the same day as end-of-semester juries; students may sign up for the exam two weeks prior to that date and should contact their academic advisor for more information.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Studio Arts (B.F.A.)

The BFA in Studio Arts degree offers a solid background in traditional studio media while at the same time entering the latest in digital art technology. Students get a firm foundation in drawing, painting, sculpture, digital media and art history, with additional electives in photography, printmaking and ceramics. Students go on to create their own self-designed concentration. Admission to the program (generally in the sophomore or junior year) must be followed by a minimum of three semesters of studio work before the thesis exhibition. A student is admitted into the program only upon recommendation by the studio arts faculty and approval by the chairperson, following a successful portfolio review. All majors must participate in the monthly BFA critiques held in the Visual Arts Center Gallery. Each candidate for the BFA must present an exhibition and gallery talk during the final year of study. This exhibit is prepared under the guidance and supervision of the art faculty and must demonstrate proficiency in a chosen area of concentration. Once admitted into the BFA program via their BFA review, students must achieve grades of B- or higher in all ART and ARH courses.

## Learning Outcomes for Studio Arts Majors

**In addition to the outcomes for the B.A. in art, students with a B.F.A. in studio arts should also be able to:**

1. Be familiar with the professional art world, from the perspective of career options, including exhibition venues, graduate school and grant opportunities.
2. Assemble a professional portfolio.
3. Understand the mechanics of setting up a safe and functioning studio.
4. Know how to do a professional exhibition of their art, write about their art and speak about their art at a public event.

## Studio Arts Requirements

## Required Courses

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-1140 Design I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits

Subtotal: 21 credits

## Introductory Studio Electives

(Select two courses)

- ART-1231 Ceramics I 3 credits
- ART-2150 Jewelry & Metalsmithing 3 credits
- ART-2301 Photography I 3 credits
- ART-2410 Introduction to Printmaking 3 credits

Subtotal: 6 credits

## Advanced Art History Electives

(Select two courses)

- ARH-3015 Greek & Roman Art 3 credits
- ARH-3020 Art of the Renaissance 3 credits
- ARH-3060 Twentieth Century Art 3 credits
- ARH-3110 The Spiritual in Non-Western Art 3 credits
- ARH-3120 Art Criticism 3 credits
- ARH-3130 The History of Photography 3 credits
- ARH-3140 African Art 3 credits
- ARH-3150 Art of the Human Body 3 credits
- ARH-3210 Women in Art 3 credits
- ARH-4710 Special Topics in Art History 3 credits

Subtotal: 6 credits

## Advanced Studio Electives

(Select 6 courses)

(All advanced studio courses may be repeated for credit. See below.)

- ART-3031 Life Drawing 3 credits
- ART-3032 Advanced Drawing 3 credits
- ART-3040 Landscape Painting 3 credits
- ART-3222 Ceramics II 3 credits
- ART-3314 Advanced Printmaking 3 credits
- ART-3320 Monoprints 3 credits
- ART-4020 Advanced Digital Media 3 credits
- ART-4040 Advanced Photography 3 credits
- ART-4050 Advanced Painting 3 credits
- ART-4060 Advanced Digital: Graphic Design 3 credits
- ART-4070 Advanced Digital: Web Design for Artists 3 credits
- ART-4110 Visual Art & Performance 3 credits
- ART-4130 Advanced Sculpture 3 credits
- ART-4710 Special Topics in Art 3 credits

Subtotal: 18 credits

### Required Capstone Courses:

- ART-4120 B.F.A. Project & Exhibit 3 credits
- ARH-4720 Seminar in Contemporary Art Issues 3 credits
- ART-4730 B.F.A. Seminar 3 credits

Subtotal: 9 credits

Total: 60 credits

- *Students may take the same Advanced Studio course more than once, but no more than twice with the SAME professor unless given special permission by the department chair.*
- *Grades for BFA Thesis Exhibition will be determined by the thesis advisor in consultation with the full department.*
- *Once admitted into the BFA program via their BFA Review, students must achieve grades of B- or higher in all ART and ARH courses.*

## Art Education (PreK-12) Teaching Endorsement

Students pursuing a license to teach art in grades PreK-12 must complete either the B.A. in Art or the B.F.A. in Studio Arts as well as specific teacher-education coursework and requirements. Please refer to the Unified Arts Teacher License Endorsement section for details.

**Important:**

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Technical Theater (A.A.)**

This career-oriented program includes course work in technical theater skills (stagecraft, lighting and design, music and audio engineering), studio and performing arts, and general management; an internship is required.

## **Learning Outcomes for Technical Theater Majors**

### **Competency #1: Awareness of and Competency in 21st Century Literacies**

Students will:

1. Be able to produce an electronic portfolio of their learning journey, specifically focused on the degree program, in hopes it will become a lifelong process.
2. Demonstrate creativity and collaboration.
3. Expand their global awareness and exposure to diversity and communities.
4. Be able to use information and computer technology.
5. Have an increased civic and economic awareness.
6. Demonstrate basic quantitative reasoning and skills, especially geospatial literacy.
7. Have opportunities to develop leadership.
8. Develop their personal learning network.
9. Be employable in a 21st-century work environment.
10. Be aware of the environmental implications of their discipline.

### **Competency #2: General Backstage Knowledge and Aptitude**

Students will:

1. Demonstrate knowledge of stage etiquette, correct communication and nomenclature.
2. Demonstrate safety and hazard awareness.
3. Understand the organization structure of the theater, related job descriptions, and fulfilling their position(s) within.
4. Consistently exhibit professional attitude, attendance and behavior.
5. Students will collaborate and communicate productively with the crew.

### **Competency #3: Basic Stage Carpentry Skills**

Students will:

1. Demonstrate knowledge of the fly system: loading, mechanics, safety and flying.
2. Understand sight lines, trims, proper handling of masking and drops.
3. Understand basic rigging: knots, shackles, slings, wire clamps, etc.
4. Understand basic set assembly: basic tools and safety, flats and platform, construction, jacks, pipe structures, etc.
5. Load-in, set-up and load-out road shows of all types.
6. Collaborate and communicate productively with a diversity of visions.

## **Competency #4: Basic Knowledge of Stage Lighting and Set Design and Implementation for Theater, Music and Dance**

Students will:

1. Analyze a script, present a storyboard or creative interpretation and concept of the design.
2. Draft a lighting plot, with all related paper work: patch, instrument schedule, cut list, focus chart, etc.
3. Understand WYSIWYG and Emphasis software.
4. Operate, design with and understand intelligent fixtures and other DMX accessories.
5. Understand stage electrics: safety, loads, instruments, maintenance, read, hang, circuit, focus, color and trouble shoot a plot.
6. Demonstrate basic board skills: load a plot, patch, record Q's, Subs and operate.
7. Design a show: document collaboration from concept to actualization.

## **Competency #5: Basic Knowledge of Sound Systems, Be Able to Set Up, Understand Components, Operate for Theater, Music and Dance**

Students will:

1. Understand and use Digital Performer software and other Audio programs.
2. Have a basic understanding of sound theory including EQ, decibels, frequencies, etc.
3. Understand basic system set-ups: Dabden, Performance Space and Andy Shapiro Recording Studio, including: power, tie-ins, FOH, Monitors, Amps, crossover and drive rack configurations.
4. Design sound plots with speaker and mic placement, theory and practice, in each genre.
5. Mix live and for recording when possible for all genres: rock, classical, jazz, folk, pop, theater and musical theater.
6. Be able to set up headsets, hard of hearing systems, lectures, etc., independently.
7. Load-in, set-up and load-out different road shows.
8. Collaborate and communicate productively with a diversity of visitors.

## **Required Courses**

- THA-1041 Introduction to Theater Arts 3 credits
- THA-1111 Stagecraft 3 credits
- THA-2020 Theater Lab 3 credits (12 credits) (4 times; 2 upper-level, 2 lower-level)
- THA-2810 Internship in Theater 1-12 credits (6 credits)
- THA-3130 Introduction to Design: Costume, Scenic, and Stage Lighting 3 credits

## **Career Concentration Component**

This component permits students to customize and focus their studies. Students must complete all course work listed within at least one of the following clusters and must complete 12 credits in all:

### **Performing Arts**

(Take 3 of the following courses)

- THA-1040 Interpreting Contemporary Dramatic Literature 3 credits
- THA-2035 Costume Construction & Stage Makeup 3 credits
- THA-2121 Acting I 3 credits **AND**
- THA-2121L Acting I Lab 1 credits \*

## Business Management

- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2410 Human Resource Management 3 credits

## Computer Information Systems

- CIS-2220 Website Design 3 credits
- CIS-3040 Database 3 credits

## Music & Audio Technology

- MUS-2160 Introduction to Technology in Music 2 credits (3 credits)
- MUS-2231 Studio Recording I 3 credits
- MUS-3272 Studio Recording II 3 credits

## Fine & Studio Arts

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-1140 Design I 3 credits

**Total: 43 credits**

*\*Students registering for THA-2121 Acting I must also register for the THA-2121L Acting I Lab for 1 credit.*

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Theater & Drama (B.A.)**

The B.A. in Theater and Drama is designed to serve students who aspire to become theater performers, teachers, theater technicians and managers or those who wish simply to gain a broader knowledge and understanding of themselves and the world around them as part of a strong liberal arts education. It also prepares students for graduate work.

## Learning Outcomes for Theater & Drama Majors

1. Students will articulate their grasp of the many facets of theater, including its history, literature and performance, through writing, speech and their own performance.
2. Students will acquire the verbal and writing skills necessary to master the processes of analysis, criticism and interpretation unique to theater and, yet, interdisciplinary as well.
3. Students will develop their skills in acting, directing, design and management both on and offstage and in the classroom, making the link between the "page" and the "stage."
4. Students will be prepared to succeed in the professional world of theater, in graduate school, teaching or working in community settings.
5. Students will collaborate with fellow students and faculty in developing their own levels of focus, discipline and responsibility within a creative environment.

## Theater & Drama Requirements

### Required Courses

- THA-1040 Interpreting Contemporary Dramatic Literature 3 credits
- THA-1041 Introduction to Theater Arts 3 credits
- THA-2121 Acting I 3 credits
- THA-2121L Acting I Lab 1 credits \*

Subtotal: 10 credits

*\*Students registering for THA-2121 Acting I must also register for the THA-2121L Acting I Lab for 1 credit.*

### Historical & Literary Studies

- THA-3010 Shakespeare: On the Stage & On the Page 3 credits
- THA-3110 Dramatic Literature: Classical/Modern 3 credits
- THA-3130 Introduction to Design: Costume, Scenic, and Stage Lighting 3 credits
- THA-3140 Theater History 3 credits

Subtotal: 12 credits

### Production & Performance Skills

- THA-1111 Stagecraft 3 credits
- THA-2122 Acting II 3 credits

- THA-3123 Acting III 3 credits
- THA-3150 Introduction to Stage Management 3 credits
- THA-3210 Introduction to Directing 4 credits

Subtotal: 16 credits

## Elective

(select 1 course from the following)

- DAN-2030 Improvisation/Composition: Intermediate/Advanced Level 4 credits
- DAN-3030 Improvisation/Composition: Intermediate/Advanced Level 4 credits
- DAN-3010 The Renaissance Spirit 3 credits
- THA-2035 Costume Construction & Stage Makeup 3 credits
- THA-3030 Theater for Young Audiences 3 credits
- THA-3040 Improvisation for Actors 3 credits
- THA-3123 Acting III 3 credits

Subtotal: 3-4 credits

## Laboratory Experiences

- THA-2040 Performance & Production Lab 0 or 3 credits **OR**
- THA-4010 Performance & Production Lab 0 or 3 credits

Subtotal: 3 credits

## Capstone Courses

- THA-4720 Senior Project in Theater 3 credits \*\*
- THA-4730 Seminar in Professional Preparation for the Actor 3 credits

Subtotal: 6 credits

Total: 50-51 credits

*\*\* If students elect to direct their own theater production as their senior project, THA-3150 Introduction to Stage Management, and THA-3210 Introduction to Directing, will be pre-requisites for their senior project.*

## Theater Arts Education (PreK-12) Teaching Endorsement

Students pursuing teaching endorsement in theater arts education must complete the B.A. in Theater & Drama, additional teacher education core program requirements, unified arts education program coursework and unified arts education endorsement-specific coursework. Please refer to the Education Department section of this catalog for specific requirements.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Minors

### Art History Minor

#### Required Courses

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits

Subtotal: 6 credits

#### Introductory Studio Electives (select two courses):

- ART-1011 Drawing I 3 credits
- ART-1231 Ceramics I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2150 Jewelry & Metalsmithing 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits
- ART-2301 Photography I 3 credits
- ART-2410 Introduction to Printmaking 3 credits

Subtotal: 6 credits

#### Advanced Art History Electives (select three courses):

- ARH-3015 Greek & Roman Art 3 credits
- ARH-3020 Art of the Renaissance 3 credits

- ARH-3060 Twentieth Century Art 3 credits
- ARH-3110 The Spiritual in Non-Western Art 3 credits
- ARH-3120 Art Criticism 3 credits
- ARH-3130 The History of Photography 3 credits
- ARH-3140 African Art 3 credits
- ARH-3150 Art of the Human Body 3 credits
- ARH-3210 Women in Art 3 credits
- ARH-4710 Special Topics in Art History 3 credits
- ARH-4720 Seminar in Contemporary Art Issues 3 credits

Subtotal: 9 credits

Total: 21 credits

## **Arts Management Minor (for Fine & Performing Arts majors)**

### Required Courses

- ACC-2121 Financial Accounting 4 credits
  - ACC-2122 Managerial Accounting 4 credits
  - BUS-1340 Social Entrepreneurship 3 credits
  - BUS-2230 Principles of Marketing 3 credits
  - BUS-2410 Human Resource Management 3 credits
  - CIS-1430 Spreadsheets 3 credits
- AND**
- ECO-2020 Macroeconomics 3 credits **OR**
  - ECO-2030 Microeconomics 3 credits

Total: 23 credits

## **Dance Minor**

The minor in dance exposes students to the vital aspects of the art as performers, creators and observers. Courses provide students with a conceptual, historical and technical background. Advanced students may become members of the Johnson Dance Ensemble, our student dance company or may have the opportunity to become an apprentice in the Vermont Dance Collective.

### Required Courses

**The dance minor consists of a minimum of 24 credits selected from the following courses:**

- DAN-1010 Fundamentals of Dance 3 credits
- DAN-1111 Modern Dance 3 credits
- DAN-2010 Folk Dance 3 credits
- DAN-2030 Improvisation/Composition: Intermediate/Advanced Level 4 credits
- DAN-2131 Ballet 3 credits
- DAN-3020 Intermediate Ballet: Technique & History 3 credits
- DAN-3030 Improvisation/Composition: Intermediate/Advanced Level 4 credits
- DAN-3112 Intermediate Modern Dance: Technique & History 3 credits
- DAN-3130 Jazz Dance 3 credits
- DAN-4130 Advanced Ballet/Modern Dance: Technique & History 3 credits

Total: 24 credits

## Music Minor

The music minor exposes students to a broad overview of music and is an option for students who want to continue playing and studying music but are majoring in another field. Individual lessons and performance opportunities are offered in both traditional and jazz/contemporary settings.

### Required Courses (19 credits)

- MUS-1015 Meet the Masters 3 credits
- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1052 Keyboard Harmony II 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1062 Ear Training II 1 credits
- MUS-1231 Music Theory I 3 credits
- MUS-1232 Music Theory II 3 credits
- Select any two additional MUS courses, at least one of which is at the 3000 level 6 credits

### Applied Music Lessons & Ensemble (4 credits)

Select any combination of 4 credits.

- MUS-1120 Applied Music Lessons 0.5 credits
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (1 credits)
- MUS-3240 Applied Music Lessons 1 credits

Total: 23 credits

## Studio Arts Minor

The minor in studio arts combines foundation work in drawing and art history with study in the student's choice of four studio areas.

## Required Courses

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits

## Introductory Studio Electives:

(select four courses)

- ART-1231 Ceramics I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2150 Jewelry & Metalsmithing 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits
- ART-2301 Photography I 3 credits
- ART-2410 Introduction to Printmaking 3 credits

Subtotal: 12 credits

Total: 21 credits

*Note: Upper-level studio courses may be substituted for up to 2 of the introductory studio electives.*

## Theater Minor

The minor in theater provides both a conceptual and practical study of performance and production, as well as a basic historical and literary background.

## Required Courses

- THA-1041 Introduction to Theater Arts 3 credits
- THA-1111 Stagecraft 3 credits
- THA-3140 Theater History 3 credits

Select three courses from the following:

- THA-2121 Acting I 3 credits **AND**
- THA-2121L Acting I Lab 1 credits \*

- THA-2122 Acting II 3 credits
- THA-3030 Theater for Young Audiences 3 credits
- THA-3123 Acting III 3 credits
- THA-3130 Introduction to Design: Costume, Scenic, and Stage Lighting 3 credits
- THA-3210 Introduction to Directing 4 credits (3 credits)

Select one course from the following:

(Complete THA 3140 before taking these courses):

- THA-3010 Shakespeare: On the Stage & On the Page 3 credits
- THA-3110 Dramatic Literature: Classical/Modern 3 credits

Total: 21-22 credits

*\*Students registering for THA-2121 Acting I must also register for the THA-2121L Acting I Lab for 1 credit.*

## Humanities

### Faculty/Staff

N.E. Bou-Nacklie, *Professor*

William Doyle, *Professor*

Paul Silver, *Professor*

Sharon Cline, *Associate Professor*, Department Chair

David Plazek, *Associate Professor*

Sandra Noyes, *Staff Assistant*

The Department of Humanities offers programs designed to provide a deep understanding of human culture, traditions and languages while developing the critical thinking skills necessary for any career or graduate pursuit. History graduates are well-suited for careers in teaching, public service, museum work, historical preservation and the law, while political science graduates leave prepared for positions of responsibility in public and civic organizations. Students seeking a broad education and a solid foundation for future study at the bachelor or professional level may choose to major in the two-year General Studies program.

*The Department of Humanities offers courses with the following designators: FRE (French), GEO (Geography), HIS (history), HUM (humanities), INT (interdisciplinary), PHI (philosophy), POS (political science) and SPA (Spanish). See full Course Descriptions.*

### Majors & Concentrations

#### General Studies (A.A.)

This two-year program exposes students to a range of disciplines and provides a sound educational base for future studies at the bachelor's or professional level.

## Required Courses

Sixty credits are needed for the degree. Students in the Associate of Arts (A.A.) in General Studies program must complete a First-Year Seminar Course, Creative Audience, all of the Foundational Skills components of the General Education Curriculum (GEC) and six credits each from the Aesthetic, Global, and Social & Historical Perspectives of the GEC. The remaining credits are electives chosen from 1000- and 2000-level courses in consultation with an advisor.

## History (B.A.)

History is recognized as a field central to the liberal arts tradition. Its study of the variety and diversity of human experience through time is vital to developing an educated perspective on the world today.

A history major is an appropriate and useful one for students planning to enter the fields of teaching, public service, museum work, historical preservation and law, as well as those intending to study at the graduate level.

## Learning Outcomes for History Majors

### Each graduate will:

1. Have a general knowledge of the human past and geographical literacy, including events, ideas and individuals that have shaped the world through time.
2. Have an understanding of the economic, political, social, cultural and religious historical forces and the complexity of events that reflect the diversity of human experience.
3. Have specific regional and temporal knowledge of "Western" and "non-Western" cultures.
4. Be competent in locating, evaluating, synthesizing and analyzing historical evidence from primary sources and/or documents.
5. Be capable of understanding, defending, critiquing and developing historical interpretations.
6. Successfully communicate, in oral and written form, his or her findings and interpretations, using proper documentations and scholarly conventions.

## Required Courses

### Category I (18 credits)

- HIS-1111 World History I 3 credits
- HIS-1112 World History II 3 credits
- HIS-1211 American History I 3 credits
- HIS-1212 American History II 3 credits
- HIS-4730 Seminar in Historical Communication 3 credits
- HIS-4740 Seminar in Historical Investigation 3 credits

### Electives (24 credits)

Take eight upper-level elective courses from Categories II and III below. Electives must include at least two courses from Category II and a minimum of 5 must be HIS designated.

## Category II

- HIS-3040 Ancient Civilizations of the New World 3 credits
- HIS-3225 Latin America: Mexico to Chile; History, Politics, Cultures 3 credits
- HIS-3510 Chinese History & Culture 3 credits
- HIS-3520 Japanese History & Culture 3 credits
- HIS-4010 History of the Middle East 3 credits
- HUM-3110 Native American History & Culture 3 credits
- HUM-3120 The Abenaki & Their Neighbors 3 credits
- HUM-3150 People & Cultures of the Middle East & North Africa 3 credits
- HUM-3160 African Culture 3 credits

## Category III

- HIS-3020 Greek & Roman History 3 credits
- HIS-3050 Community in America 3 credits (offered through the JSC External Degree Program)
- HIS-3060 Church & State in America 3 credits (offered through the JSC External Degree Program)
- HIS-3080 Colonial America: History & Life 3 credits
- HIS-3090 Modern German History 3 credits
- HIS-3141 History of the United States in the 20th Century I 3 credits
- HIS-3142 History of the United States in the 20th Century II 3 credits
- HIS-3160 Vermont's Coastal Regions 3 credits (offered through the JSC External Degree Program)
- HIS-3165 Vermont History 3 credits
- HIS-3311 Europe in the 19th Century 3 credits
- HIS-3312 Europe in the 20th Century 3 credits
- HIS-3350 Struggle for Democracy 3 credits (offered through the JSC External Degree Program)
- HIS-3352 English History Since 1714 3 credits
- HIS-3355 The European Enlightenment 3 credits
- HIS-3370 Nationalism & Rebellion in Irish History 3 credits (offered through the JSC External Degree Program)
- HIS-3420 French Revolution 3 credits
- HIS-3430 History of the Soviet Union 3 credits
- HIS-3450 Women in European History 3 credits
- INT-3210 The Holocaust: An Interdisciplinary Approach 3 credits
- POS-3060 Vermont Politics 3 credits
- POS-4010 American Foreign Policy 3 credits

Total: 42 credits

Secondary Teaching License in Social Studies

Students pursuing licensure endorsement to teach Social Studies in grades 7-12 must successfully complete either the B.A. in History or the B.A. in Political Science, as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Political Science (B.A.)

The B.A. in Political Science is designed to develop understanding of the theoretical and practical relationship between political culture and governmental structures at the four traditional levels of political organization: local, state, national and international. Students develop the ability to compare alternative systems and to understand the political process at various levels. Writing and research skills are also developed, especially in seminar and independent research courses. Graduates of the program are prepared for graduate and professional study and for positions of responsibility in public and civic organizations.

## Learning Outcomes

Graduates will:

1. Possess content knowledge of a broad array of political phenomenon, concepts, and theory as well as basic historical and geographic factors that influence political behavior.
2. Develop the ability to analyze and interpret the influence social, economic, cultural, and environmental variables have on political behavior and outputs.
3. Understand how individual and global cultures can impact political beliefs and actions.
4. Be able to comprehend, interpret, and apply scientific methodology to the study of political behavior.
5. Be able to apply critical thinking, limit bias, and explore all potential causal relations.
6. Successfully communicate, in oral and written form, his or her findings and interpretations, using proper documentations and scholarly conventions.

## Political Science Curriculum

Political science faculty strongly recommend a semester-long internship with such agencies or organizations as the Vermont General Assembly or Legislative Council, state and federal agencies, newspapers and wire services, U.S. Congress, international organizations, law offices, legal aid programs, public-interest groups, public affairs foundations, election campaigns, etc. Such experiences often lead directly to career opportunities in these fields. Internships enable students to meet many decision-makers and are particularly valuable when integrated with seminars in political science.

## Required Core Courses (18 credits)

- POS-1010 Introduction to Political Science 3 credits
- POS-1020 American Politics & Government 3 credits
- POS-2050 International Economics & Politics 3 credits
- POS-2110 State & Local Government 3 credits
  
- POS-3010 Survey of Western Political Thought 3 credits **OR**
- POS-3025 Research Design & Analysis 3 credits

- POS-4730 Senior Seminar in Political Science 3 credits

## Electives (21 credits)

Choose 2 of the following:

- POS-1030 Comparative Government 3 credits
- POS-1040 African-American History & Politics 3 credits
- POS-2010 Observation of the Legislative Process 3 credits
- POS-2040 International Relations 3 credits
- POS-2810 Internship in Political Science 1-12 credits

Choose 5 of the following:

- POS-3030 Contemporary Political Theory: Race, Class & Gender 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3050 Environmental Ethics & Politics 3 credits
- POS-3060 Vermont Politics 3 credits
- POS-3070 Terrorism, Religion & the Nation-State 3 credits
- POS-3130 Church & State Separation: The First Amendment to the U.S. Constitution 3 credits
- POS-3150 Campaigns & Elections 3 credits
- POS-3160 Modern Politics through Drama & Fiction 3 credits
- POS-3170 U.S. Constitutional Law 3 credits
- POS-3180 Politics in Film 3 credits
- POS-3210 Canadian Politics 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits
- POS-3230 Third World Politics 3 credits
- POS-3270 Revolutions, Transformed Economics & Social Change 3 credits
- POS-4010 American Foreign Policy 3 credits
- POS-4020 International Relations 3 credits
- POS-4810 Internship in Political Science 1-12 credits
  - HIS-2410 Latin American History & Culture, 3 credits (CSC course)
- HIS-3165 Vermont History 3 credits
- HIS-3312 Europe in the 20th Century 3 credits
- HIS-3351 English History to 1714 3 credits
- HIS-4010 History of the Middle East 3 credits

Total: 37-39 credits

Secondary Teaching License in Social Studies

Students pursuing licensure endorsement to teach Social Studies in grades 7-12 must successfully complete either the B.A. in History or the B.A. in Political Science, as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Political Science (B.A.): Criminal Justice concentration

This program goes beyond the study of law and crime to explore complex issues of social justice related to crime, punishment and victimization, including race, class, gender and sexuality. Students explore current trends and controversies and gain cross-cultural competencies needed to work successfully with diverse populations. A distinguishing feature of this program is its emphasis on the growing field of restorative justice, a technique that involves working with victims as well as offenders.

**Students graduate with a B.A. in Political Science with a concentration in Criminal Justice.** The Political Science major itself develops in students an understanding of diversities and social structural arrangements among people affect the distribution of power and the ability of people to live meaningful, sustainable lives and co-exist in a fair and socially just world. (Note: Criminal Justice also is offered as a concentration in the B.A. in Anthropology & Sociology.)

The multidisciplinary concentration in criminal justice draws on JSC's rich liberal arts tradition and commitment to high-impact education -- "learning by doing" -- to explore the relationships of crime, law and social justice. It also cross-cultural competency, preparing students to communicate and work with those from a wide range of backgrounds and with disparate life experiences.

Supported by a network of community partner organizations, the program offers internships in the field of criminal justice, particularly in the arenas of restorative justice and victim advocacy as well as in border patrol and other areas of law enforcement. Students complete these internships in their junior or senior year along with a concurrent senior seminar.

A range of disciplines are brought to bear on criminal justice, including anthropology, political science, psychology and sociology. The program prepares student for a careers in law enforcement and criminal investigation, crime analysis, juvenile justice, victim advocacy, restorative justice and community development, social justice and public policy. A criminal justice background also prepares students to pursue careers in law, from working as paralegals and legal assistants to attending law school.

## Learning Outcomes

In addition to meeting the learning outcomes of the B.A. in Political Science, upon successful completion of the concentration in criminal justice, students should be able to:

1. Critically evaluate key theories about crime and criminal behavior.
2. Critically assess existing criminal justice systems with the aim of improving their condition and function.
3. Identify and assess alternative solutions to problems associated with existing models of crime control.
4. Develop and demonstrate sufficient self-awareness to understand the influence of personal biases and values in interacting with diverse groups.
5. Identify and analyze ways in which oppression, privilege, discrimination, and social and economic disadvantage contribute to inequalities and injustices within criminal justice systems.
6. Understand key issues and approaches in the field of criminal justice, including mental health, substance abuse, youth development, trauma-informed care, and results-based accountability.
7. Demonstrate familiarity with key skill sets in the field of criminal justice, including effective communication and conflict resolution and de-escalation.

8. Apply understandings of research methods and data collection techniques for conducting research in criminal justice.
9. Apply understandings of criminal justice policy and key controversies to field experiences.

## Political Science Curriculum

Political science faculty strongly recommend a semester-long internship with such agencies or organizations as the Vermont General Assembly or Legislative Council, state and federal agencies, newspapers and wire services, U.S. Congress, international organizations, law offices, legal aid programs, public-interest groups, public affairs foundations, election campaigns, etc. Such experiences often lead directly to career opportunities in these fields. Internships enable students to meet many decision-makers and are particularly valuable when integrated with seminars in political science.

### Required Core Courses (18 credits)

- POS-1010 Introduction to Political Science 3 credits
- POS-1020 American Politics & Government 3 credits
- POS-2050 International Economics & Politics 3 credits
- POS-2110 State & Local Government 3 credits
  
- POS-3010 Survey of Western Political Thought 3 credits **OR**
- POS-3025 Research Design & Analysis 3 credits
  
- POS-4730 Senior Seminar in Political Science 3 credits

### Electives (21 credits)

Choose 2 of the following:

- POS-1030 Comparative Government 3 credits
- POS-1040 African-American History & Politics 3 credits
- POS-2010 Observation of the Legislative Process 3 credits
- POS-2040 International Relations 3 credits
- POS-2810 Internship in Political Science 1-12 credits

Choose 5 of the following:

- POS-3030 Contemporary Political Theory: Race, Class & Gender 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3050 Environmental Ethics & Politics 3 credits
- POS-3060 Vermont Politics 3 credits
- POS-3070 Terrorism, Religion & the Nation-State 3 credits
- POS-3130 Church & State Separation: The First Amendment to the U.S. Constitution 3 credits
- POS-3150 Campaigns & Elections 3 credits
- POS-3160 Modern Politics through Drama & Fiction 3 credits
- POS-3170 U.S. Constitutional Law 3 credits
- POS-3180 Politics in Film 3 credits

- POS-3210 Canadian Politics 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits
- POS-3230 Third World Politics 3 credits
- POS-3270 Revolutions, Transformed Economics & Social Change 3 credits
- POS-4010 American Foreign Policy 3 credits
- POS-4020 International Relations 3 credits
- POS-4810 Internship in Political Science 1-12 credits
  - HIS-2410 Latin American History & Culture, 3 credits (CSC course)
- HIS-3165 Vermont History 3 credits
- HIS-3312 Europe in the 20th Century 3 credits
- HIS-3351 English History to 1714 3 credits
- HIS-4010 History of the Middle East 3 credits

## Criminal Justice Curriculum

*Note:* Criminal Justice requirements that meet requirements for the major are also applied toward the major.

### Required Core Courses (16 credits)

- CRJ-1010 Introduction to Criminal Justice 3 credits
  - CRJ-1040 Criminal Justice Lecture Series: Careers in the Field 1 credits
  - CRJ-4770 Criminal Justice Internship Seminar 1 credits
  - CRJ-4810 Internship in Criminal Justice 1-12 credits (Internship must be a minimum of 3 credits)
  - CRJ-4770 Senior Seminar 1 credit (pending approval)
- Criminal Justice internships must be arranged the semester prior to the semester in which they occur, and they must be taken concurrently with the Senior Seminar.*
- POS-1010 Introduction to Political Science 3 credits **OR**
  - POS-1020 American Politics & Government 3 credits
- ANT-1010 Introduction to Cultural Anthropology 3 credits **OR**
  - SOC-1010 Introduction to Sociology 3 credits
- CRJ-4020 Criminal Justice: Who is "Criminal"? 3 credits **OR**
  - PSY-3065 Abnormal Behavior 3 credits **OR**
  - SOC-2040 Race/Ethnicity, Class & Gender 3 credits **OR**
  - SOC-3170 Power, Politics & Inequality 3 credits

### Electives (take 12 credits)

- CRJ-2150 Community & Restorative Justice 3 credits
- CRJ-2230 Introduction to Criminal Law 3 credits
- CRJ-4020 Criminal Justice: Who is "Criminal"? 3 credits

- CRJ-4730 Topical Seminar in Criminal Justice 1-3 credits
- PSY-4035 Forensic Psychology 3 credits
- PHI-1040 Introduction to Ethics 3 credits
- POS-1040 African-American History & Politics 3 credits
- POS-2110 State & Local Government 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3070 Terrorism, Religion & the Nation-State 3 credits
- POS-3170 U.S. Constitutional Law 3 credits
- POS-3210 Canadian Politics 3 credits
- PSY-3065 Abnormal Behavior 3 credits
- SOC-2040 Race/Ethnicity, Class & Gender 3 credits
- SOC-3050 Gender & Society 3 credits
- SOC-3170 Power, Politics & Inequality 3 credits
- SOC-4010 Family Violence 3 credits
- SSC-1050 FYS: A Call to Action 3 credits

Total: 67 credits

## Secondary Teaching License in Social Studies

Students pursuing licensure endorsement to teach Social Studies in grades 7-12 must successfully complete either the B.A. in History or the B.A. in Political Science, as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Minors

### French Minor

The minor in French consists of a minimum of 18 credits in French, at least six of which must be at the 3000-4000 level. Courses taken to satisfy the minor must not be required or be electives within a student's major course of study. The French minor may be gained while pursuing studies in Quebec through the New England-Quebec Program. Students may also satisfy requirements for the minor by taking FRE-4910 Independent Study in French or FRE-3010 Culture & Civilization through Correspondence & Conversation.

### Global Studies Minor

The global studies minor is designed to address the demands brought on by the processes of globalization for students pursuing careers and/or graduate study in business, education, history, politics, public service and many other fields.

## Required Courses (9 credits)

- HIS-1112 World History II 3 credits
- POS-1010 Introduction to Political Science 3 credits **OR**
- POS-1020 American Politics & Government 3 credits
- POS-1030 Comparative Government 3 credits **OR**
- POS-2040 International Relations 3 credits

## Non-Western Course (Choose 1 course from the following, 3 credits):

- HIS-3225 Latin America: Mexico to Chile; History, Politics, Cultures 3 credits
- HIS-3510 Chinese History & Culture 3 credits
- HIS-3520 Japanese History & Culture 3 credits
- HIS-4010 History of the Middle East 3 credits
- HUM-3125 Religions of the World 3 credits
- HUM-3150 People & Cultures of the Middle East & North Africa 3 credits
- HUM-3160 African Culture 3 credits
- POS-3230 Third World Politics 3 credits

## Electives (Choose at least 9 credits from the following courses):

- FRE-1111 French I 3 credits **AND**
- FRE-1111L French I Lab 1 credits
- FRE-1112 French II 3 credits **AND**
- FRE-1112L French II Lab 1 credits
- FRE-2011 French III 3 credits **AND**
- FRE-2011L French III Lab 1 credits
- FRE-2012 French IV 3 credits **AND**
- FRE-2012L French IV Lab 1 credits
- FRE-3010 Culture & Civilization through Correspondence & Conversation 3 credits
- HIS-3020 Greek & Roman History 3 credits
- HIS-3040 Ancient Civilizations of the New World 3 credits
- HIS-3090 Modern German History 3 credits
- HIS-3225 Latin America: Mexico to Chile; History, Politics, Cultures 3 credits
- HIS-3311 Europe in the 19th Century 3 credits
- HIS-3312 Europe in the 20th Century 3 credits
- HIS-3350 Struggle for Democracy 3 credits
- HIS-3352 English History Since 1714 3 credits
- HIS-3355 The European Enlightenment 3 credits

- HIS-3370 Nationalism & Rebellion in Irish History 3 credits
- HIS-3400 Modern French History 3 credits
- HIS-3420 French Revolution 3 credits
- HIS-3430 History of the Soviet Union 3 credits
- HIS-3450 Women in European History 3 credits
- HIS-3510 Chinese History & Culture 3 credits
- HIS-3520 Japanese History & Culture 3 credits
- HIS-4010 History of the Middle East 3 credits
- HUM-3125 Religions of the World 3 credits
- HUM-3150 People & Cultures of the Middle East & North Africa 3 credits
- HUM-3160 African Culture 3 credits
- POS-1030 Comparative Government 3 credits (if not taken as a required course above)
- POS-2040 International Relations 3 credits
- POS-2050 International Economics & Politics 3 credits
- POS-3010 Survey of Western Political Thought 3 credits
- POS-3030 Contemporary Political Theory: Race, Class & Gender 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3050 Environmental Ethics & Politics 3 credits
- POS-3070 Terrorism, Religion & the Nation-State 3 credits
- POS-3180 Politics in Film 3 credits
- POS-3210 Canadian Politics 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits
- POS-3230 Third World Politics 3 credits
- POS-3270 Revolutions, Transformed Economics & Social Change 3 credits
- POS-4010 American Foreign Policy 3 credits
- POS-4020 International Relations 3 credits
  
- SPA-1011 Spanish I 3 credits **AND**
- SPA-1011L Spanish I 1 credits
  
- SPA-1012 Spanish II 3 credits **AND**
- SPA-1012L Spanish II 1 credits
  
- SPA-2011 Spanish III 3 credits **AND**
- SPA-2011L Spanish III 1 credits
  
- SPA-2012 Spanish IV 3 credits **AND**
- SPA-2012L Spanish IV 1 credits

Total: 21 credits

## History Minor

The history minor is appropriate for students pursuing careers in teaching, public service, museum work, historic preservation, law and many other fields, as well as those planning graduate study in politics, history, English, anthropology and sociology.

## Required Courses

- HIS-1111 World History I 3 credits
- HIS-1112 World History II 3 credits
- HIS-1211 American History I 3 credits
- HIS-1212 American History II 3 credits

## Electives

- HIS- Upper-level European History 3 credits
- HIS- Upper-level American History 3 credits
- HIS- Upper-level history: Africa, Asia, Latin America or the Middle East 3 credits

Total: 21 credits

## Political Science Minor

### Required Courses

- POS-1010 Introduction to Political Science 3 credits
- POS-1020 American Politics & Government 3 credits
- POS-2050 International Economics & Politics 3 credits
- POS-2110 State & Local Government 3 credits
  
- POS-3010 Survey of Western Political Thought 3 credits **OR**
- POS-3040 The Politics of Gender 3 credits

### Electives

- POS-3000/4000 (2 courses) 6 Credits

Total: 21 credits

## Pre-Law Minor

### Required Courses

- PHI-1040 Introduction to Ethics 3 credits

- POS-1020 American Politics & Government 3 credits **OR**
- POS-1010 Introduction to Political Science 3 credits
  
- POS-2050 International Economics & Politics 3 credits **OR**
- POS-3010 Survey of Western Political Thought 3 credits
  
- POS-2110 State & Local Government 3 credits
- POS-3170 U.S. Constitutional Law 3 credits

## Electives

- HUM-3000/4000 (2 courses) 6 credits

Total: 21 credits

## Spanish Minor

The minor in Spanish consists of a minimum of 18 credits in Spanish, at least six of which must be at the 3000-4000 level. Students can access those upper-level courses by participating in a semester abroad through JSC's affiliation with the National Student Exchange program. Courses may also be taken through JSC's affiliation with Castleton State College (VIT). Courses taken to satisfy the minor must not be required or be electives within a student's major course of study.

## Interdepartmental Programs

## Interdisciplinary Studies Committee

Kathleen Brinegar, *Associate Professor, Education*

David Cavanagh, *External Degree Program*

Lisa Cline, *Associate Professor, Humanities*

Clyde Stats, *Fine and Performing Arts Faculty, Assistant Director of Academic Support Services*

Julie Theoret, *Professor, Mathematics*

Sharon Twigg, *Associate Professor, Writing & Literature*

## Distance Learning (DL) Academic Review Board

Amy Beattie, *Coordinator of Online Learning and Services*

James Black, *Professor of Business & Economics*

David Cavanagh, *External Degree Program*

Marianne DiMascio, *EDP Advisor*

Bobbi Jo Carter, *Associate Dean of Distance Education Programs*

Lisa Kent, *Access Services Librarian*

Majoring in Interdisciplinary Studies gives students the opportunity to design an individualized program that provides a strong foundation for any number of careers and graduate pursuits. With their advisor's assistance and support, students design a program that incorporates three areas of study that they want to pursue. Students explore connections within and among disciplines and cultures and learn how leaders in various fields have applied their knowledge and creativity to pressing social, political and scientific problems.

## Majors & Concentrations

### Interdisciplinary Studies (B.A.)

The Interdisciplinary Studies major offers students the opportunity and challenge to create their own individually designed interdisciplinary programs. It gives students the tools to explore and understand connections and patterns: within and among disciplines; between self and the world; among different cultures. It seeks to give students knowledge of how great thinkers in various fields have tried to understand experience and use their learning to address problems and engage fully with life.

### Learning Outcomes for Interdisciplinary Studies Majors

Students will be able to:	Evidence:
Connect their academic plan to their personal history and long-term goals.	Plan of Study narrative; reflection papers in capstone course.
Articulate a rationale for their three areas of study and justify the selection of courses in each of those areas.	Plan of Study narrative; plan of study.
Understand the nature and value of interdisciplinary study.	Capstone project; discussion and writing assignments in capstone course.
Demonstrate meaningful connections between their chosen areas of study.	Plan of Study narrative; capstone project; final reflection paper in capstone course.
Demonstrate depth of knowledge in the primary and secondary areas of study.	Completion of capstone course; capstone project; 21 upper-level credits in the major.
Experience and articulate meaningful connections between learning in the major and life outside the classroom.	Extended Classroom Experience (ECE); ECE reflection paper; career exploration assignment.

## Requirements

Students must successfully complete a total of 42 credits, at least 21 of which must be upper-division, as follows:

- 18 credits in a primary area of study;

- 12 credits in a secondary, supporting area of study;
- 9 credits in a tertiary area of study; and
- 3-credit capstone course: INT-4610 Senior Seminar in Interdisciplinary Studies
- An extended classroom experience, which may be credit or non-credit bearing, must be at least 20 hours in length. It can be completed through an existing course, internship, student teaching or service-learning experience.

## Additional Stipulations

- At least 12 of the 42 credits required within the Interdisciplinary Studies major must be taken in the semester(s) after the Plan of Study has been approved.
- Education majors seeking licensure who are using Interdisciplinary Studies as their second major will need to choose their primary and secondary areas of study in a fashion that meets state licensure requirements.
- A grade of C- or higher must be earned in all courses counted toward the 42 credits for the major.
- In general, courses such as Student Teaching in Education, which are specifically aimed at career preparation, are not appropriate for inclusion in the 42 credits for the Interdisciplinary Studies degree.

## Becoming an Interdisciplinary Studies Major

A student interested in becoming an Interdisciplinary Studies major on campus will first contact the Advising & Career Center and be assigned an advisor on the Interdisciplinary Studies Committee (ISC). In the case of the Distance Learning Programs (EDP), the student will be assigned an advisor in his or her community upon entering EDP. The student and advisor will initially explore together the student's interests and identify relationships between different disciplines or clusters of disciplines which the student would like to explore more deeply. With the advisor's assistance and support, the student will write a program proposal that describes in detail the relationships between two or more areas of study. Members of the ISC, who may recommend clarifications or changes, will review the written program proposal, together with the student's transcript and a completed Plan of Study. Once the program proposal has been approved, the student is officially an Interdisciplinary Studies major. The advisor and/or other members of the ISC or EDP staff will continue to work with the student during her/his progress toward a degree.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Professional Studies (B.A.)

The B.A. in Professional Studies is available to students who are completing their bachelor's degree through JSC Online or Johnson State College's community-based Distance Learning Programs (EDP). This major allows adult learners to design a plan of study around a particular career interest while weaving together the threads of their prior learning into a coherent degree program. Upon declaring an area of special emphasis, students work with their advisor to develop a degree plan that meets their objectives as well as the college's general education and other requirements for a bachelor's degree.

### Requirements

- For students matriculating through JSC Online, no college credits are required before admittance into the major.
- For students matriculating through the community-based External Degree Program, 60 college credits are required before admittance into the major.

- Completion of the JSC Online/EDP General Education Curriculum
- During the student's first semester, development and submission of a degree plan, including a narrative that declares a focus of study and demonstrates integration of prior learning and proposed courses
- Completion of at least 30 credits in a focus area of study, including INT 4950, Senior Seminar in Professional Studies
- Completion of at least 15 upper-level credits (3000- or 4000-level) within the 30-credit focus area

*Note: It is not possible to do a minor along with the major in professional studies unless the credits for the minor are in addition to the 120 credits required for a bachelor's degree.*

## Learning Outcomes for Professional Studies Majors

**Students will be able to:**

- Plan a coherent, individualized program of study with a clear focus and in keeping with their personal goals.
- Demonstrate bachelor's-level knowledge in one or more fields of interest.
- Demonstrate connections between theoretical learning and practical experience in relation to the field of interest.
- Demonstrate an ability to reflect upon and synthesize key aspects of the learning experience in the program.

**Important:**

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Minors

### Gender Studies Minor

The gender studies minor combines courses in various departments in order to consider the issue of gender from different perspectives. It is designed to engage men and women students in a wide-ranging level of inquiry that combines historical and contemporary analysis of issues and problems.

### Required Courses

- POS-3040 The Politics of Gender 3 credits
- POS-3050 Environmental Ethics & Politics 3 credits

### Electives

(Select 4 courses):

- ENG-2510 Women & Literature 3 credits
- HIS-2210 Women in U.S. History 3 credits
- HIS-3450 Women in European History 3 credits
- POS-3030 Contemporary Political Theory: Race, Class & Gender 3 credits
- SOC-2040 Race/Ethnicity, Class & Gender 3 credits

- SOC-3060 Sexuality & Intimacy 3 credits
- SOC-3170 Power, Politics & Inequality 3 credits

Total: 18 credits

## Mathematics

### Faculty/Staff

Julie Theoret, *Professor, Department Chair*  
Christopher Aubuchon, *Associate Professor*  
Gregory Petrics, *Associate Professor*  
Shona Sladyk, *Administrative Assistant*

The Department of Mathematics offers academically challenging programs along with the personal attention and instruction to help help students succeed. Faculty understand the power and the promise of mathematics, and they strive to instill that same sense of awe and enthusiasm in their students. We are living today in what some consider the golden age of mathematics, as the pace of advancements in math parallels the explosive growth in other sciences. Using data, statistics, modeling and analytics, it's possible to unlock many of life's secrets and solve real-word problems.

Faculty provide a context for the "numbers" by teaching the relationships between math and other disciplines, such as history, philosophy and music. Courses focus on class participation and challenge students to think creatively while developing strong critical-thinking and analytical skills.

Mathematics is one of western civilizations' oldest and richest disciplines, and mathematics literacy and competence is an essential skill to have in a global society. The B.S. in mathematics provides a solid foundation for a variety of careers in business, science and related fields. Students interested in a high school teaching career may pursue secondary mathematics teaching licensure through this program.

*The Department of Mathematics offers courses with the following designator: MAT (mathematics). See full Course Descriptions.*

### Majors & Concentrations

#### Mathematics (A.S.)

This two-year program exposes students to the core principles of mathematics, mathematical thinking, and data driven decision making with statistics. It also provides a strong mathematical foundation for future studies at the bachelor's level.

#### Required Core Courses (17 credits)

- MAT-1080 Introduction to Quantitative Reasoning 3 credits
- MAT-1531 Calculus I 4 credits
- MAT-2020 Mathematical Reasoning 3 credits
- MAT-2030 Probability & Statistics 3 credits
- MAT-2532 Calculus II 4 credits

## Electives (Complete 11 or more credits)

See any of the mathematics faculty for guidance selecting courses aligned with your goals; note that some courses will incur additional credit requirements due to prerequisites, although these courses may fulfill General Education Requirements.

- MAT-1020 Intermediate Algebra 3 credits
- MAT-1221 Finite Mathematics 3 credits
- MAT-1320 Pre-Calculus 3 credits
- MAT-2533 Calculus III 4 credits
- MAT-2810 Internship in Mathematics 1-12 credits (Internship should be between 1 and 3 credits)
- MAT-2910 Independent Study in Mathematics 1-12 credits (Independent study should be between 1 and 3 credits)
- MAT-3040 Geometrical Reasoning 3 credits
- MAT-3210 Linear Algebra 3 credits
- MAT-3240 Probability Theory with Statistics 3 credits
- MAT-3310 Differential Equations 3 credits
- MAT-4130 Abstract Algebra 3 credits
- MAT-4140 Geometry 3 credits
- MAT-4710 Special Topics in Mathematics 3 credits
- CIS-2271 Java Programming 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits
- POS-3025 Research Design & Analysis 3 credits
- PSY-2410 Research Methods in Psychology 3 credits

Total: 28-29 credits

## General Education Curriculum Requirements (32 credits)

General Education Curriculum Requirements for an Associate's Degree in Mathematics include the following:

First Year Seminar (3 cr.)

Creative Audience (2 semesters at .5 cr. each semester)

Natural Science with a Lab (4 cr.)

Written Expressin (6 cr.)

Aesthetic Perspective (6 cr.)

Global Perspective (6 cr.)

Social & Historical Perspective (6 cr.)

Please refer to the links under "Important" below for more information.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Mathematics (B.S.)

The B.S. in mathematics provides students with an opportunity to study one of western civilization's oldest and richest disciplines. In addition to the intrinsic value of the study of mathematics as a liberal art, the mathematics degree provides the foundation for a variety of careers in business, scientific and related fields. Students desiring preparation for a high school teaching career may also earn secondary mathematics teaching licensure.

## Learning Outcomes for Mathematics Majors

The mathematics program aims to produce graduates who are knowledgeable and skillful users and communicators of mathematics. The learning outcomes are broken into two categories: content knowledge outcomes and capstone outcomes. The content knowledge outcomes are assessed by the Core Assessment Exam, which students take after they have completed the required core courses in the major. The capstone outcomes are assessed when students present their senior projects.

## Content Knowledge Outcomes

Upon completion of the core requirements, students will be able to:

### *Calculus I:*

- apply the limit definition of the derivative and use it to calculate the instantaneous rate of change of a function.
- calculate the derivative of any algebraic or transcendental function.
- use the derivative to solve real-world problems.
- apply the Fundamental Theorem of Calculus.

### *Calculus II:*

- apply integration techniques to a variety of algebraic and transcendental functions.
- use the definite integral (and limits of sums) to solve real-world problems.
- determine whether an infinite series converges and, when possible, find its sum.

### *Linear Algebra:*

- use matrices to solve real-world problems
- use the RREF form of a matrix in a variety of ways (including solving systems of linear equations; testing for linear independence, spanning, and to determine whether a set of vectors forms a basis; finding eigenvectors)
- prove some basic properties of matrices, vectors and linear transformations

### *Probability & Statistics:*

- apply the normal or binomial distribution to solve certain probability problems.
- calculate probabilities and apply them to determine the unusualness of events.
- create and use descriptive statistics to summarize, analyze and compare data sets.

- explain the importance of random/probability sampling.

*Mathematical Reasoning:*

- apply the working tools of predicate logic.
- construct a lucid mathematical proof that demonstrates the logic while using proper grammar and precise mathematical notation.
- explore complex and unfamiliar mathematical ideas while effectively communicating these ideas both orally and in writing.

## Capstone Outcomes:

Students will:

- be able to explain main ideas of mathematics clearly, in writing and orally.
- develop the ability to read mathematics independently.
- deepen their own mathematical knowledge by applying previous mathematical learning to new mathematical thinking, concepts and ideas.

## Mathematics Requirements

### Required Core Courses (17 credits)

Students must pass a core assessment examination upon completion of the core requirements.

- MAT-1531 Calculus I 4 credits
- MAT-2020 Mathematical Reasoning 3 credits
- MAT-2030 Probability & Statistics 3 credits
- MAT-2532 Calculus II 4 credits
- MAT-3210 Linear Algebra 3 credits

### Other Required Courses (6-7 credits)

- PHY-1041 Physics I 4 credits **OR**
- CIS-2271 Java Programming 3 credits

**AND**

- INT-3150 Gödel, Escher, Bach: An Eternal Golden Braid 3 credits  
(Required for students seeking teaching endorsement in math)

### Elective Courses (take at least 15 credits)

- MAT-2533 Calculus III 4 credits \*
- MAT-3240 Probability Theory with Statistics 3 credits \*
- MAT-3310 Differential Equations 3 credits \*
- MAT-4130 Abstract Algebra 3 credits \*

- MAT-4140 Geometry 3 credits \*
- MAT-4710 Special Topics in Mathematics 3 credits

*\*The courses above with an asterisk are required for students seeking teaching endorsement in math.*

## Capstone Requirement (3 credits)

- MAT-4930 Senior Project in Mathematics 3 credits (Required for students seeking teaching endorsement in math)

## Total: 41-42 credits

*Students must earn a grade of C or better in each of the required core courses and in each of the elective courses used to satisfy their degree program requirements.*

**Note:** *It is also recommended that students take a course in economics.*

## Secondary Teaching License in Mathematics

Students pursuing licensure endorsement to teach mathematics in grades 7-12 must successfully complete either the B.S. in Mathematics as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Minors

### Mathematics Minor

Students desiring a minor in mathematics must complete the following requirements:

#### Required Courses (17 credits)

- MAT-1531 Calculus I 4 credits
- MAT-2020 Mathematical Reasoning 3 credits
- MAT-2030 Probability & Statistics 3 credits
- MAT-2532 Calculus II 4 credits
- MAT-3210 Linear Algebra 3 credits

## Elective

- One course: either MAT-2533 or any mathematics course at the 3000/4000 level.

Total: 20-21 credits

*Students must earn a grade of C or better in all courses for the minor in mathematics.*

## Writing/Literature

### Faculty/Staff

Daniel Towner, *Professor*

Tyrone Shaw, *Associate Professor*

Sharon Twigg, *Associate Professor, Department Chair*

Elizabeth Powell, *Associate Professor*

Jensen Beach, *Assistant Professor*

Sandra Noyes, *Staff Assistant*

Programs in the Writing & Literature Department stress the interdependence between literature and writing, between art and craft. Students learn to write and read with sensitivity and precision, to appreciate literature and literary theory, and to produce work in a variety of genres. Creative writing majors specialize in poetry, fiction or the creative essay and sharpen their skills in small writing-workshop courses. English students explore literature and language from critical, aesthetic, historical, linguistic and national perspectives. And communications and community media majors acquire both the practical skills and theoretical knowledge essential to print, web and photo journalism as well as business writing and media relations.

In addition, all of our students gain practical experience by working on one of our two literary journals, *Green Mountains Review* and *Pamplousse*, or our biweekly, student-produced newspaper, *Basement Medicine*. Guest speakers and readings by internationally recognized authors and journalists round out this rich and diverse program.

*The Writing & Literature Department offers courses with the following designator: ENG (English). See complete Course Descriptions.*

### Majors & Concentrations

#### **Communications & Community Media (B.A): Photojournalism concentration**

The Photojournalism concentration of the B.A. in Communications & Community Media prepares students for careers in photojournalism. Beginning with a background in basic journalistic practices and digital media, students apply those skills to the particular demands of compelling visual documentation and narrative. Students learn essential photographic skills from the basics of composition, lighting and a focus on the ethical concerns of mass media in general and this visual medium in particular. **Graduates earn a B.A. in Communications & Community Media with a concentration in Photojournalism.**

#### Communications & Community Media Programs at JSC

This interdisciplinary program consists of three concentrations -- Print and Web Community Journalism, Photojournalism and Public Relations -- that share a common core of eight courses. It is designed to prepare students for careers in media communications, journalism and photojournalism in both print and web-based media. Students must successfully complete the requirements for one or more of the three concentrations in addition to the core Communications & Community Media curriculum..

## Learning Outcomes

1. Students will understand and apply best practices in community journalism, public relations and photojournalism.
2. Students will understand and apply ethical principles to their communications work.
3. Students will gain competency in a variety of media platforms applicable to both print and web.
4. Students will achieve proficiency in journalistic processes, including interviewing techniques, research, story structure, AP style and writing concisely, clearly and accurately,
5. Students will understand the strengths and limitations of social media and apply that knowledge professionally.
6. Students will learn to work under the pressure of constant deadlines.
7. Students will understand current mass media theories as they apply to their concentration.

## Communications & Community Media Core Curriculum (24 credits)

- ART-2110 Introduction to Digital Media 3 credits
- ART-4025 Advanced Digital Media: Documentary & Social Media 3 credits
- CIS-2220 Website Design 3 credits
- ENG-2051 Introduction to Newswriting 3 credits
- ENG-2052 Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-3020 Feature Writing 3 credits
- ENG-4010 Issues in Journalism 3 credits
- SOC-3130 Mass Media & Society 3 credits

## Photojournalism Concentration

### Required Concentration Courses (24 credits)

- ENG-1260 Introduction to Photojournalism 3 credits
- ENG-3022 Advanced Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ART-2301 Photography I 3 credits
- ART-2430 Introduction to Video Production 3 credits
- ART-4020 Advanced Digital Media 3 credits
- ART-4040 Advanced Photography 3 credits
- ART-4140 Advanced Photojournalism 3 credits
- ART-4810 Internship in Art 1-12 credits (3 credits)

Total: 48 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Communications & Community Media (B.A.): Print & Web Community Journalism concentration**

The Print & Web Community Journalism concentration in the B.A. in Communications & Community Media prepares students for the realities of a career in journalism and equips them with the necessary skills to function successfully in a professional environment in both print and web media organizations. Course requirements prepare students to employ the best journalistic practices and to write in a variety of styles, including hard news, editorials, features, profiles and reviews. The concentration enables students to understand and apply basic ethical principles to their work in journalism and to properly understand the role, rights and responsibilities of a free press in a democratic society. **Students graduate with a B.A. in Communications & Community Media with a concentration in Print & Web Community Journalism.**

## Communications & Community Media Programs at JSC

This interdisciplinary program consists of three concentrations -- Print and Web Community Journalism, Photojournalism and Public Relations -- that share a common core of eight courses. It is designed to prepare students for careers in media communications, journalism and photojournalism in both print and web-based media. Students must successfully complete the requirements for one or more of the three concentrations in addition to the core Communications & Community Media curriculum.

## Learning Outcomes

1. Students will understand and apply best practices in community journalism, public relations and photojournalism.
2. Students will understand and apply ethical principles to their communications work.
3. Students will gain competency in a variety of media platforms applicable to both print and web.
4. Students will achieve proficiency in journalistic processes, including interviewing techniques, research, story structure, AP style and writing concisely, clearly and accurately,
5. Students will understand the strengths and limitations of social media and apply that knowledge professionally.
6. Students will learn to work under the pressure of constant deadlines.
7. Students will understand current mass media theories as they apply to their concentration.

## Communications & Community Media Core Curriculum (24 credits)

- ART-2110 Introduction to Digital Media 3 credits
- ART-4025 Advanced Digital Media: Documentary & Social Media 3 credits
- CIS-2220 Website Design 3 credits
- ENG-2051 Introduction to Newswriting 3 credits
- ENG-2052 Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-3020 Feature Writing 3 credits
- ENG-4010 Issues in Journalism 3 credits
- SOC-3130 Mass Media & Society 3 credits

## Print & Web Community Journalism Concentration

### Required Concentration Courses (24 credits)

- ENG-3022 Advanced Newspaper Publishing: Writing, Editing, Layout & Design 3 credits (take at least two times for a total of 6 credits)
- ENG-4130 The Form & Theory of Nonfiction 3 credits
- ENG-4160 Investigative Journalism 3 credits
  
- HIS-1212 American History II 3 credits **OR**
- POS-1020 American Politics & Government 3 credits
  
- ENG-4810 Internship 1-12 credits (3 credits required)

### Choose 2 of the following:

- ENG-2171 World Literature I 3 credits
- ENG-2172 World Literature II 3 credits
- ENG-2281 Survey of English Literature I 3 credits
- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENG-2321 Survey of American Literature I 3 credits
- ENG-2322 Survey of American Literature II 3 credits
- ENG-2510 Women & Literature 3 credits

Total: 48 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Communications & Community Media (B.A.): Public Relations concentration**

The Public Relations concentration in the B.A. in Communications & Community Media provides students with a comprehensive understanding of public relations practices in contemporary society as they apply to corporate, business, government, political and nonprofit organizations. Students learn to shape and communicate organizational messages through a variety of media strategies and platforms. Students also learn principles of marketing, management, mass communications, advertising and macroeconomics as well as an understanding of best ethical practices. **Students graduate with a B.A. in Communications & Community Media with a concentration in Public Relations.**

# Communications & Community Media Programs at JSC

This interdisciplinary program consists of three concentrations -- Print and Web Community Journalism, Photojournalism and Public Relations -- that share a common core of eight courses. It is designed to prepare students for careers in media communications, journalism and photojournalism in both print and web-based media. Students must successfully complete the requirements for one or more of the three concentrations in addition to the core Communications & Community Media curriculum..

## Learning Outcomes

1. Students will understand and apply best practices in community journalism, public relations and photojournalism.
2. Students will understand and apply ethical principles to their communications work.
3. Students will gain competency in a variety of media platforms applicable to both print and web.
4. Students will achieve proficiency in journalistic processes, including interviewing techniques, research, story structure, AP style and writing concisely, clearly and accurately,
5. Students will understand the strengths and limitations of social media and apply that knowledge professionally.
6. Students will learn to work under the pressure of constant deadlines.
7. Students will understand current mass media theories as they apply to their concentration.

## Communications & Community Media Core Curriculum (24 credits)

- ART-2110 Introduction to Digital Media 3 credits
- ART-4025 Advanced Digital Media: Documentary & Social Media 3 credits
- CIS-2220 Website Design 3 credits
- ENG-2051 Introduction to Newswriting 3 credits
- ENG-2052 Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-3020 Feature Writing 3 credits
- ENG-4010 Issues in Journalism 3 credits
- SOC-3130 Mass Media & Society 3 credits

## Public Relations Concentration

### Required Concentration Courses (24 credits)

- BUS-1340 Social Entrepreneurship 3 credits
- ECO-2020 Macroeconomics 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-3070 Public Relations 3 credits
- BUS-3210 Advertising 3 credits
- BUS-3370 Professional Communication 3 credits
- BUS-4810 Internship in Business Management 1-12 credits (6 credits) (minimum of 240 hours)

Total: 48 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Creative Writing (B.F.A.)

In this program, aspiring writers learn the craft of fiction, poetry and prose nonfiction in literature courses and in writing workshops. Small classes and individualized instruction are key features of this student-centered program. A student and professional reading series and internships with the department's nationally recognized literary magazine, *Green Mountains Review*, complement the academic course work.

## Learning Outcomes for Creative Writing Majors

The B.F.A. in creative writing will:

1. Enable students to produce their own poetry, fiction and creative nonfiction and to become proficient readers and interpreters of imaginative literature;
2. Enable students to identify the major genres of literature, to recognize the features of each genre and to explore and evaluate different approaches to literary criticism and interpretation;
3. Develop students' abilities to analyze and explicate literary texts so that they can identify themes and ideas as well as recognize how formal literary devices affect meaning; and
4. Develop students' skills in editing and revising so that they will be prepared for graduate school in creative writing and/or for careers in publishing.

## Required Courses

### Core Courses

- ENG-1310 Introduction to Literature 3 credits
- ENG-2031 Editing & Publishing: The Literary Magazine 3 credits
- ENG-3032 Advanced Editing & Publishing: The Literary Magazine 3 credits

### Writing Workshops Part I

- ENG-2101 Creative Writing 3 credits

### Writing Workshops Part II (Take 3 courses)

Complete 9 credits from at least two different genres; students may repeat one genre.

- ENG-3120 Poetry Workshop 3 credits
- ENG-3130 Fiction Workshop 3 credits
- ENG-3140 The Creative Essay 3 credits

## Lower-level Literature Survey Courses (Take 3 courses)

- ENG-2171 World Literature I 3 credits
- ENG-2172 World Literature II 3 credits
- ENG-2281 Survey of English Literature I 3 credits
- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENG-2321 Survey of American Literature I 3 credits
- ENG-2322 Survey of American Literature II 3 credits
- ENG-2510 Women & Literature 3 credits

## Upper-level Literature Survey Courses (Take 3 courses)

- ENG-3270 Myth & Myth Making 3 credits
- ENG-3320 The English Novel 3 credits
- ENG-3345 Contemporary Canadian Literature 3 credits
- ENG-3380 British Romantic Literature 3 credits
- ENG-3390 Literature of the Grotesque 3 credits
- ENG-3395 Satire in Literature 3 credits
- ENG-3405 Literary Journalism 3 credits
- ENG-3435 Practical Grammar 3 credits
- ENG-3480 Modern Literature 3 credits
- ENG-3510 Contemporary Literature 3 credits
- ENG-3520 American Poetry 3 credits
- ENG-3525 Victorian Literature 3 credits
- ENG-3530 The American Novel 3 credits
- ENG-3565 Shakespeare 3 credits
- ENG-3580 African American Literature 3 credits
- ENG-3680 Linguistics & Language History 3 credits
- ENG-4510 Literary Research Tutorial 3 credits
- ENG-4720 Seminar in Literature 3 credits

## Upper-level Coursework (Take 2 courses)

- ENG-4110 The Form & Theory of Fiction 3 credits
- ENG-4120 The Form & Theory of Poetry 3 credits
- ENG-4130 The Form & Theory of Nonfiction 3 credits
- ENG-4150 Literary Criticism & Theory 3 credits

## Thesis

- ENG-4920 Senior Thesis 3 credits  
(creative project in genre of specialization)

Total: 48 credits

## Secondary Teaching License in English

Students pursuing licensure endorsement to teach English in grades 7-12 must successfully complete either the B.A. in English or the B.F.A. in Creative Writing as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## English (B.A.)

Students in this program explore literature and language from critical, aesthetic, historical, linguistic and national perspectives. Opportunities to study creative writing and journalism are also components of the program.

## Learning Outcomes for English Majors

The B.A. in English will:

1. Enable students to identify the major genres of literature, to recognize the features of each genre and to explore and evaluate different approaches to literary criticism and interpretation.
2. Introduce students to English, American and world literary traditions so that they will learn how literature both reflects and shapes intellectual, aesthetic and cultural life.
3. Develop students' abilities to analyze and explicate literary texts so that they can identify themes and ideas and learn how formal literary devices affect meaning.
4. Prepare students for graduate study, for teaching secondary school English and for careers in the private sector or in government that require critical thinking and reading skills as well as skills in research and discourse analysis.

## Required Courses

### Introductory Core Courses

- ENG-1310 Introduction to Literature 3 credits

### Introductory Survey Courses (choose 3 courses)

- ENG-2171 World Literature I 3 credits
- ENG-2172 World Literature II 3 credits
- ENG-2281 Survey of English Literature I 3 credits

- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENG-2321 Survey of American Literature I 3 credits
- ENG-2322 Survey of American Literature II 3 credits
- ENG-2510 Women & Literature 3 credits

### Writing Courses (choose 2 courses)

- ENG-2051 Introduction to Newswriting 3 credits
- ENG-2052 Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-2101 Creative Writing 3 credits
- ENG-3020 Feature Writing 3 credits
- ENG-3022 Advanced Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-3120 Poetry Workshop 3 credits
- ENG-3130 Fiction Workshop 3 credits
- ENG-3140 The Creative Essay 3 credits

### Upper-level Specialty Courses in Literature, Language and Criticism

- ENG-3565 Shakespeare 3 credits
- ENG-4150 Literary Criticism & Theory 3 credits
- ENG-4510 Literary Research Tutorial 3 credits

### Additional Upper-level Specialty Courses in Literature, Language & Criticism (choose 4 courses)

- ENG-3270 Myth & Myth Making 3 credits
- ENG-3320 The English Novel 3 credits
- ENG-3345 Contemporary Canadian Literature 3 credits
- ENG-3380 British Romantic Literature 3 credits
- ENG-3390 Literature of the Grotesque 3 credits
- ENG-3395 Satire in Literature 3 credits
- ENG-3435 Practical Grammar 3 credits
- ENG-3480 Modern Literature 3 credits
- ENG-3510 Contemporary Literature 3 credits
- ENG-3520 American Poetry 3 credits
- ENG-3525 Victorian Literature 3 credits
- ENG-3530 The American Novel 3 credits
- ENG-3580 African American Literature 3 credits
- ENG-3680 Linguistics & Language History 3 credits
- ENG-4720 Seminar in Literature 3 credits

### Optional Thesis

- ENG-4920 Senior Thesis 3 credits

Total: 39 credits (42 with thesis)

## Secondary Teaching License in English

Students pursuing licensure endorsement to teach English in grades 7-12 must successfully complete either the B.A. in English or the B.F.A. in Creative Writing as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Minors

### Communications & Community Media Minor

#### Required Courses

- ART-2110 Introduction to Digital Media 3 credits
- ART-2430 Introduction to Video Production 3 credits
- ENG-2051 Introduction to Newswriting 3 credits
- ENG-2052 Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-3020 Feature Writing 3 credits
- ENG-3022 Advanced Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-4010 Issues in Journalism 3 credits
- ENG-1260 Introduction to Photojournalism 3 credits

Total: 24 credits

### Creative Writing Minor

#### Required Courses

## Introductory-level Creative Writing Course

- ENG-2101 Creative Writing 3 credits

## Lower-level Literature Survey Courses (take 3 courses)

- ENG-2171 World Literature I 3 credits
- ENG-2172 World Literature II 3 credits
- ENG-2281 Survey of English Literature I 3 credits
- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENG-2321 Survey of American Literature I 3 credits
- ENG-2322 Survey of American Literature II 3 credits
- ENG-2510 Women & Literature 3 credits

## Form & Theory Course (take 1 course)

- ENG-4110 The Form & Theory of Fiction 3 credits
- ENG-4120 The Form & Theory of Poetry 3 credits
- ENG-4130 The Form & Theory of Nonfiction 3 credits

## Upper-level Literature Courses (take 1 course)

- ENG-3270 Myth & Myth Making 3 credits
- ENG-3320 The English Novel 3 credits
- ENG-3345 Contemporary Canadian Literature 3 credits
- ENG-3380 British Romantic Literature 3 credits
- ENG-3390 Literature of the Grotesque 3 credits
- ENG-3395 Satire in Literature 3 credits
- ENG-3435 Practical Grammar 3 credits
- ENG-3480 Modern Literature 3 credits
- ENG-3510 Contemporary Literature 3 credits
- ENG-3520 American Poetry 3 credits
- ENG-3525 Victorian Literature 3 credits
- ENG-3530 The American Novel 3 credits
- ENG-3565 Shakespeare 3 credits
- ENG-3580 African American Literature 3 credits
- ENG-3680 Linguistics & Language History 3 credits
- ENG-4720 Seminar in Literature 3 credits

## Upper-level Writing Workshops (take 2 courses)

- ENG-3120 Poetry Workshop 3 credits
- ENG-3130 Fiction Workshop 3 credits
- ENG-3140 The Creative Essay 3 credits

Total: 24 credits

## Literature Minor

### Required Courses

#### Introductory Survey Courses (take 4 courses)

- ENG-2171 World Literature I 3 credits
- ENG-2172 World Literature II 3 credits
- ENG-2281 Survey of English Literature I 3 credits
- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENG-2321 Survey of American Literature I 3 credits
- ENG-2322 Survey of American Literature II 3 credits

#### Specialty Courses in Particular Genres, Periods, Themes or Authors (take 3 courses)

- ENG-3270 Myth & Myth Making 3 credits
- ENG-3320 The English Novel 3 credits
- ENG-3345 Contemporary Canadian Literature 3 credits
- ENG-3380 British Romantic Literature 3 credits
- ENG-3390 Literature of the Grotesque 3 credits
- ENG-3395 Satire in Literature 3 credits
- ENG-3435 Practical Grammar 3 credits
- ENG-3480 Modern Literature 3 credits
- ENG-3510 Contemporary Literature 3 credits
- ENG-3520 American Poetry 3 credits
- ENG-3525 Victorian Literature 3 credits
- ENG-3530 The American Novel 3 credits
- ENG-3565 Shakespeare 3 credits
- ENG-3580 African American Literature 3 credits
- ENG-3680 Linguistics & Language History 3 credits
- ENG-4720 Seminar in Literature 3 credits

Total: 21 credits

## Academic Policies & Regulations

By enrolling for courses, students obligate themselves to abide by the policies set forth in this catalog and in other College publications.

### Registration

Students pursuing a bachelor's or associate's degree from Johnson State College must be formally accepted through the Admissions Office before they may be registered for courses. Continuing undergraduates are expected to pre-register for their courses in November for the following spring semester and in April for the following summer and fall semesters. Students are notified of exact dates and instructions via email one to two weeks prior to the registration period. Distance Learning (DL) students (JSC online and EDP) receive registration materials well before the start of each semester. DL students confer with their advisors who can register them for classes. When registering for courses at institutions outside of the Vermont State Colleges, DL students submit a tuition transfer form available from the DL/EDP Office. A late fee may be assessed for registrations after the published deadline.

Class attendance does not in itself signify registration. Students must properly register for each of their courses in order to receive academic credit for work completed.

All students must meet state immunization requirements and must be cleared by Student Financial Services (see Payment Procedures section for details) in order to register for classes.

### Dual-Enrollment Consortium Agreement!

Students matriculated at Johnson State College (their home institution where they have been officially accepted) and enrolled in JSC courses may simultaneously enroll in courses at two or more VSC institutions. With the exception of the summer term, students follow the home institution's procedures for course selection, course add/drop/withdrawals, advising, financial aid and billing. This agreement does not supersede existing Distance Learning arrangements; these arrangements remain unchanged by this agreement. For the full Vermont State College Consortium Enrollment Agreement, see "Board of Trustees", "Policies and Procedures" and then on the VSC website, [www.vsc.edu](http://www.vsc.edu).

### Class Membership

Students are classified for academic class membership and administrative purposes on the basis of semester credits earned according to the following schedule:

Number of Credits Earned	Academic Class
0-29.9	Freshman
30-59.9	Sophomore
60-89.9	Junior
90 or more	Senior

# Auditing Courses

No credit or grades are assigned for audited courses. A per-credit tuition fee of one-half of in-state or out-of-state rates, whichever applies, is charged. Courses that are audited do not count toward a student's credit load and are not eligible for financial aid. Students wishing to audit a course should follow normal registration procedures, indicating AU as their grade option at the time of registering. The choice to audit a course must be made prior to the end of the add/drop period, and it does not apply to programs/courses with already reduced tuition rates (i.e., Extension courses).

# Basic Skills

Recognizing that basic writing and mathematic skills are essential to successful completion of college-level work, and in accordance with the Vermont State Colleges' Basic Academic Skills policy, Johnson State College assesses the skill level of all new students in these two areas. On the basis of this assessment, students who do not possess college-level skills in either or both of these areas are directed into courses designed to address their skill deficiencies. These courses should be taken during the student's first year at Johnson State College.

*Please note that basic skills courses whose course number begins with a "0" (i.e., MAT-0410, Fundamentals of Algebra) do NOT count toward total credits required for graduation, although they do count in determining full-time status and semester grade point average.*

# Class Attendance

Students who register for a course prior to the first week of the semester or during the first day of the semester are expected to attend at least one of the first two class sessions. A faculty member may fill absent places with students wishing to enter the course and refuse entry to absent students when they appear. Faculty members may also refuse to admit a student to the class after the beginning of the semester, if they believe the student cannot complete missed work. In this case, the registered student is responsible for dropping the course from his/her schedule.

For EDP weekend courses, please note that attendance is MANDATORY at all Saturday and Sunday classes. Students should not register for these weekend courses if they know before the semester begins that they cannot attend all classes.

# Course Add/Drop/Withdrawal

Students approved for online registration may add courses online until the start of the semester and drop courses online until the end of the second week of the semester, except for the summer semester, in which case students should refer to the policies and procedures specific to that program. With the exception of summer courses, all students may add or drop a course until the end of the second week of the semester by completing a Registration Adjustment Form and submitting it to the Advising and Registration Center. Second-half semester courses may be added or dropped until the end of the second week of the second half of the semester. If a course is dropped, it will be removed from the student's academic record and may result in an adjustment to a student's bill and financial aid. Students are encouraged to contact the Student Financial Services Office before dropping a course. After the second week of the semester and until the end of the ninth week of the semester, a student may withdraw from a course by completing a Registration Adjustment Form and submitting it to the Advising and Registration Center. If a student withdraws from a course, the course will appear on the transcript with a "W" grade and will not affect a student's grade point average. In most cases, a withdrawal from a course does not affect a student's bill or financial aid award. Students withdrawing or dropping all courses will be considered as departing from the college and must complete the Student Exit Notification and Leave of Absence Form. Please see Johnson State College's Refund Policy within this catalog.

Students registered through JSC for courses at other non-VSC institutions must drop or withdraw from courses at both colleges. Students will be charged for any tuition and fees that the other institution charges JSC.

## Formally Declaring a Major

### Campus-Based Students

Students who did not declare a major at the point of admission to the college must do so after earning 45 credit hours in a bachelor's degree program, or 12 credit hours in an associate's degree program, by submitting a Change of Major/Academic Advisor Form to the Advising and Registration Center, if they have not already done so.

**Transfer Students:** Students transferring in 45 credit hours or more for a bachelor's degree, or 12 credit hours for an associate's degree program, must declare a major within the first semester of their program by submitting a Change of Major/Academic Advisor Form to the Advising and Registration Center.

A student may declare any major officially in existence at the time the student declares a major. The Program Evaluation available on Web Services outlines all graduation requirements, including the requirements in the student's major, and monitors the student's progress toward completion of these requirements.

### Distance Learning (DL) Students (JSC online & EDP)

DL students may choose from the following majors: business (accounting or management concentrations), childhood education (with both elementary education and special education endorsement, also referred to as inclusive elementary education, may require taking some courses on campus), interdisciplinary studies (self-designed), professional studies (self-designed), psychology (general psychology or pre-professional counseling concentrations), and wellness and alternative medicine. Other JSC programs, including elementary and secondary teaching endorsement, are available if students can take courses on the JSC campus. For details on degree requirements, see the sections in this catalog on particular academic departments.

Students majoring in professional studies or in interdisciplinary studies must prepare an individualized degree plan with the help of advisors during their first semester. Students in these majors may not graduate until their degree plans have received approval by the DL Academic Review Board. If a student has not submitted a degree plan by the last review meeting of the second semester in the program, the program's director may recommend administrative dismissal for one semester.

## Discontinued Majors

The following provisions apply with regard to discontinued majors:

- Students who have previously formally declared a major may not at a later time switch into a major designated as discontinued.
- Students failing to make a formal declaration of a major by the end of their sophomore year, as is required, may not at a later time declare a discontinued major.
- Former students who are not on an approved Leave of Absence and have returned may not pursue a discontinued major.

## Grading

Johnson State College employs letter grades as indicated below:

<b>Grade</b>	<b>Explanation</b>	<b>Grade Points</b>
A+	High competence	4.00
A	High competence	4.00
A-	High competence	3.70
B+	Good competence	3.30
B	Good competence	3.00
B-	Good competence	2.70
C+	Moderate competence	2.30
C	Moderate competence	3.00
C-	Moderate competence	1.70
D+	Minimum acceptable competence	1.30
D	Minimum acceptable competence	1.00
D-	Minimum acceptable competence	0.70
F	Failing	0.00
I	Incomplete (See Incompletes below)	
P or NP	Pass/No Pass	
NG	No grade indicates that no grade has yet been submitted. The grade will be recorded upon course completion.	
TR	Transfer credit	
CR	Credit granted (non-course work)	
W	Withdrawn*	
AU	Audit	

*\*Withdrawals are recorded by the Registrar's Office only after receipt of an authorized course withdrawal.*

In general, faculty grades are due at the Advising and Registration Center 48 hours after each course's final examination.

## **Pass/No Pass Option**

Students may elect to be graded on a Pass/No Pass basis. The Pass/No Pass option is designed to encourage students to take courses that they otherwise would not take for fear of receiving low grades. For performance of D- work or better, a grade of P (Pass) is recorded on the student's record. Credit is received for P grades, but the grades do not affect the student's grade point average. Failing work is recorded as NP (No Pass). NP grades do not earn credit nor does the grade affect the student's grade point average. Students select this option by indicating P/NP as their grade option when they register.

Courses taken with a grade of P do not count toward requirements of the General Education Core Curriculum, EDP General Education requirements, or in general, the requirements of a student's major or minor. In addition, students may NOT take Basic Skills courses as Pass/No Pass.

## **Incompletes**

The grade of Incomplete (I) may be given to work of satisfactory quality when the amount of required work has not been completed because of illness or other reasons beyond the control of the student. A grade of I is not to be used instead of the grade of F in situations involving a student's lack of ability or negligence. Grades of I will automatically revert to an F if a final grade, or alternate default grade, is not submitted to the Registrar's Office prior to the Incomplete deadline submitted by the instructor. In general, grades of Incomplete are to be completed by the end of the seventh week of the semester immediately following the semester in which the Incomplete grade was given. Courses carried through with an I into the following semester do not count toward the student's credit load for tuition billing purposes or for additional credit toward graduation.

## **Not Graded Work**

The grade of NG may be given for a course when an instructor has not yet assigned grades for the course. This may happen when a course is still in progress at the semester deadline for grade submission. Course work carried into a second semester with a grade of NG does not count toward a student's credit load for tuition billing purposes or for additional credit toward graduation in the second semester.

## **Repeat Course Option**

Students may repeat, once, any course\* that they have previously taken to attempt to earn a higher grade. When a course has been repeated within the Vermont State College system (VSC), the initial grade remains on the transcript but is taken out of the student's cumulative GPA. The most recent grade will be the only one computed in the student's cumulative average. Credit in the course may be earned only once. If the credit value of the course has changed, the repeated course is worth the new credit value. A student must petition the Registrar to repeat a course more than one time.

When repeating a course at another institution outside of the VSC, the initial grade remains on the transcript but is taken out of the student's cumulative GPA. The grade from the repeated course being transferred to JSC will show as a transfer but will not be counted in the student's cumulative GPA.

Students may choose to use the Pass/No Pass option when registering for a repeat course, except for courses in their major or minor, in the General Education Program, or for basic skills courses (see Pass/No Pass option). If a grade of NP is earned, however, the repeat will not count. If a course was originally taken under a prior grading system, the effect on the student's average will be determined by using the new system.

*\*Some courses as indicated in the Course Descriptions section of the catalog may be taken multiple times for credit.*

## **Auditing a Course**

No credit or grades are assigned for auditing courses. For additional information, refer to the previous section on auditing courses.

## **Credit Granted (CR) for Non-Course Work**

Students who are granted credit on the basis of CLEP examinations, military credit, lifetime experience portfolios, AP courses or other similar circumstances (as determined by Johnson State College) will receive a CR in the grade field. CR distinguishes the credit from TR, which is used for credits that are transferred in from another college or university.

## Graduation

### Application for Degree

The responsibility for your education ultimately rests in your own hands. Likewise, the timely completion of the paperwork associated with the award of your degree is your responsibility as well. Failure to take the required steps for application for degree may delay your graduation, even if all other graduation requirements have been completed. Students should access their program evaluation (via Web Services on the Portal) regularly to see where they stand in relation to degree completion.

Only students who are currently matriculated may graduate. Students absent from the College, and not on a Leave of Absence, who are seeking to complete a degree with Johnson courses must apply for readmission.

A student who anticipates completion of his/her degree requirements should file a Graduation Application through Web Services. After receiving the Graduation Application, the Registrar's Office will carry out an official degree audit. This may allow time for the student to pick up additional courses or complete outstanding paperwork during his/her last semester if necessary. In completing the degree audit, the Registrar's Office will identify where the student stands in relation to completion of degree requirements. The results of the degree audit will be given to the student and to his/her advisor. Note: A Graduation Application/Application for Degree fee will be charged to the student's account upon submission of the Graduation Application.

### Conferring of Degrees

Degrees are conferred once each year in a Commencement ceremony at the end of the spring semester. Diplomas are dated August, December or May for students completing studies in summer, fall or spring semesters respectively. Students will receive their diplomas in the mail after completion of all degree requirements is verified by the Registrar's Office.

### Participation in Commencement

Only students who have completed all degree requirements will be allowed to participate in the Commencement ceremony. The College recognizes that there may be occasions when special circumstances arise. Under such unusual circumstances, students may petition the Provost or his/her designee to participate in Commencement. Students must, however, be within 6 course credits or a single experience (such as an internship or a Graduation Standard) of completing all graduation requirements. No other exceptions will be considered. The decision of the Provost or his/her designee is final and may not be appealed to the President.

Students participating in the Commencement ceremony will be required to wear a cap and gown, which can be ordered through the College bookstore.

### Graduating with Distinction

Effective for the graduating class of spring 2006, of the total credits required for graduation, at least 30 **graded** credits for a two-year degree and 60 **graded** credits for a four-year degree must be earned within the Vermont State Colleges **by the end of the previous fall semester**. (Credits earned before 2002 are not used in this calculation unless earned from Johnson State College.) Graduating students who have earned a cumulative grade point average of 3.90 or better *through the fall semester of their graduation year* will be awarded their degree "summa cum laude." Those who earn a 3.70 average will be awarded degrees "magna cum laude." Those who earn a 3.50 average will be awarded degrees "cum laude." (*If the above standards are obtained*

*by the end of the spring semester of the graduating year, the appropriate distinction is recorded on the diploma and transcript but is not acknowledged at Commencement.)*

Graduation honors for certificate programs require final, cumulative GPA as follows: honors, 3.00-3.49; high honors, 3.50 or above.

## **Academic Honesty**

Students are expected to conform to the highest standards of academic honesty in all of their academic work at Johnson State College. Academic dishonesty in any form is prohibited and unacceptable. Acts of dishonesty for which a student may be disciplined include, but are not limited to, receiving or providing unauthorized assistance on an examination and plagiarizing the work of others in writing assignments. The *American Heritage Dictionary* defines plagiarism in the following way: "To steal or use (the ideas or writings of another) as one's own." Students are responsible for knowing what specific acts constitute plagiarism; if students are uncertain as to whether a particular act constitutes plagiarism, they should consult with their instructors before turning in assigned work.

Any faculty member who suspects that a student has committed an act of academic dishonesty will bring this suspicion to the attention of the student and provide the student with an opportunity to respond. Should the faculty member subsequently determine that the student has committed an act of academic dishonesty, he/she will assign a penalty for the offense, which may be a failing grade for the specific work submitted or a failing grade for the course. The faculty member will notify the student in writing of his/her decision, as well as the penalty associated with the act of academic dishonesty, and submit a copy of that letter to the Academic Dean's Office. The student may appeal the penalty in writing to the Academic Status Committee (for campus-based students) or the Academic Review Board (for EDP students). Upon receiving any such appeal, the Academic Status Committee/EDP Academic Review Board will consider evidence relative to the charge and determination, and will affirm, reverse or modify the finding and/or penalty of the faculty member. Decisions of the Academic Status Committee/EDP Academic Review Board may be appealed, in writing, to the Provost or his/her designee. The decision of the Provost or his/her designee is final and may not be appealed to the President of the College. Records of all incidents of academic dishonesty will be maintained in the Academic Dean's Office. Repeated incidents of academic dishonesty will subject a student to dismissal from the College.

## **Academic Standing**

### **Good Academic Standing**

A student who has 30 or more earned or GPA credits, whichever is higher, and whose cumulative grade point average is 2.00 or above (1.75 for students with fewer than 30 earned or GPA credits, whichever is higher) is considered to be in good academic standing. The cumulative and semester averages are calculated by including only the graded credits (A, B, C, D, F) earned during the current and past semesters. These averages do not include courses bearing other grade designators (*i.e.*, grades of Incomplete).

### **Incomplete Grades in Relation to GPA/Good Standing**

Calculation of a semester or cumulative grade point average does not include any Incomplete grade that a student has earned during the semester. Students who receive an Incomplete grade in one or more courses during a semester are held academically liable for the completion of the course. *Students who have an Incomplete grade for a semester will not be eligible for the Dean's or President's Lists until a final grade has been submitted for that Incomplete.*

### **Academic Warning**

A student whose cumulative average is in good standing or above but whose semester average is below good standing (see above) will receive a letter of warning from the College. There are no punitive aspects to this warning status.

## **Academic Probation**

Academic probation serves as an official warning from the College that a student's performance has been substandard. A student whose cumulative GPA falls below good standing (see above) shall be placed on academic probation. Students remain on academic probation until they raise their cumulative grade point average to good standing or until they fall below the dismissal standard (see "Academic Dismissal.") Students on academic probation who have less than 30 earned or GPA credits, whichever is higher, must work with the academic probation counselor to create a plan for academic success. When a student voluntarily withdraws from the College while on probation status or is academically dismissed and later readmitted, he/she will return on probation.

## **Academic Dismissal**

Students will be academically dismissed under the following conditions:

- Any new, first-year student with no previously earned credits who fails to achieve a grade point average of at least 0.70 in the first semester will be academically dismissed.
- Students on academic probation will be academically dismissed if they fail to achieve a semester grade point average of 2.00 having 30 or more earned or GPA credits, whichever is higher (1.75 having fewer than 30 earned or GPA credits, whichever is higher), during the semester on probation.

Students academically dismissed may reapply for admission generally after two regular semesters of absence. Students must follow the regular procedure for application to the College for re-admission and will remain on probation upon their return.

## **Appeal Process for Academic Dismissal**

A student who has been academically dismissed may appeal his/her academic status by writing a letter to the Academic Status Committee (for campus-based students) via the Advising and Registration Center or to the EDP Academic Review Board (for EDP students). This letter of appeal should include any mitigating or extenuating circumstances that may have contributed to the poor academic performance. Decisions of the Academic Status Committee/EDP Academic Review Board may be appealed to the Provost or his/her designee, then to the President of the College.

Students who successfully appeal academic dismissal may be placed on stipulated probation and may be required to sign a contract to abide by conditions set forth by the Academic Status Committee or the Provost or his/her designee. Failure to comply with any portion of the contract/stipulations may result in immediate dismissal from Johnson State College.

## **Academic Progress Alerts**

Faculty teaching 1000- and 2000-level courses complete online Academic Progress Alerts during the third week of the semester on all freshmen in those courses. The purpose of the alerts is to let students know early on how they are doing in their classes so that they can take corrective action if necessary. Using the Academic Progress Alerts, faculty give both positive and negative feedback relative to class attendance and participation, homework assignments, tests, etc.

## **Academic Forgiveness**

Johnson State College recognizes that some academically able students for various reasons have poor previous academic records. A student who has been out of college for at least two academic years may appeal to the Provost or his/her designee at the end of the first semester of subsequent attendance in good standing (generally a 2.00, see Good Academic Standing policy within this catalog) at JSC to have a previous semester set aside. The decision of the Provost or his/her designee, will be final and may not be appealed to the President of the College.

Setting aside a previous semester is done by notation on the permanent JSC transcript, not by removing any previous course or grade. Grades of C and above, and the credits derived from those grades, will remain. Grade history will be removed from cumulative totals only, and grades cannot be ameliorated if they have already been included in calculations for awarding a degree.

## **Academic Honors (President's/Dean's List)**

Matriculated (degree-seeking) students who complete 12 or more Vermont State College graded credits in a single semester and who have no Incomplete, NP, F or blank grades are eligible for the President's and Dean's List under the following standards:

- Students who achieve a 4.00 semester average will be placed on the President's List.
- Students who achieve between a 3.50 and 3.99 semester average will be placed on the Dean's List.

## **Honors Convocation**

Every spring, the College hosts Honors Convocation, an event at which the College and departments award prizes and scholarships to students who have distinguished themselves in the classroom, in the community and on the playing field.

## **Transfer of Credit**

### **Transfer within the Vermont State Colleges System**

College-level credits earned with a grade of C- or better at any VSC degree-granting institution *prior to summer 2002* are fully transferable to JSC. These transfer credits do not count in a student's GPA. Credits earned at any VSC degree-granting institution *during and after summer 2002* are not considered transfer credit but rather institutional credit, and, therefore, grades earned are counted in a student's GPA. Each credit taken in fulfillment of a GEC requirement at another VSC institution counts toward fulfillment of GEC requirements at JSC in appropriate categories.

If a student leaves one VSC institution while on academic probation and is accepted at another VSC institution, his/her academic probation status goes with him/her.

### **Transfer of Credit from Other Institutions**

(See "Transfer Credit Policy and Procedures" at [www.jsc.edu/TransferCreditPolicy](http://www.jsc.edu/TransferCreditPolicy).)

In order to be eligible for the transfer of credits from other institutions, you must be a matriculated (degree-seeking) student at Johnson State College. Matriculated students at Johnson State who wish to take courses at other institutions and have credits transferred to Johnson State are encouraged to have a conversation with their academic advisor before registering. Transfer credits will not be accepted from non-matriculated students.

Transfer credit may be granted by Johnson State College for college-level courses completed with the equivalent of a grade of C- or better at regionally accredited or officially approved institutions of higher education. Credit for a D in a course may be granted if the second semester of a two-semester, sequential course is completed with a C- or better. In addition, for transfer students holding a two-year associate's degree from an accredited institution, credits applied to that degree will be accepted as transfer credit. Credits earned in a quarter system count as two-thirds of a semester credit. The grades attached to credits accepted in transfer are not calculated in a student's cumulative grade point average.

Johnson State requires that a student accumulate at least 39 credits of upper-level work in order to graduate. Transfer credits are normally accepted as lower-level credits. Students who believe that transferred credits were upper-level work should present documentation (usually in the form of a catalog from the transferring institution) to the Registrar's Office for consideration.

Credits accepted for transfer are not necessarily accepted as meeting requirements in a student's major or for General Education requirements.

The Registrar will evaluate credits for experiential learning and credits from unaccredited institutions to determine their applicability toward graduation requirements.

### **Other Ways to Earn Academic Credit**

## **Assessment of Prior Learning**

Learning acquired through work or other non-college experiences may be assessed for college credit. Students can take one of two courses through Community College of Vermont (CCV) that guides students through the process of describing and documenting their experiential learning in a portfolio. This document is then reviewed for credit by an Advance Standing Committee composed of appropriate faculty and professionals. Approved credits, which are awarded through the Office of External Programs, are considered transfer credits, and do not count toward a student's grade point average. The Registrar, in consultation with faculty and staff of the appropriate departments, will evaluate these credits to determine their applicability toward graduation requirements.

The two CCV courses that help students through the portfolio process are listed below. EDU-1225, *Focused Portfolio Development* (1 cr.), is the better option for students who may have more focused or limited experience and are looking to request no more than 12 credits in a single academic area. EDU-1240, *Assessment of Prior Learning* (3 cr.), is more suited for students who may have many years of experience in more than one field and are expecting to request more than 12 credits.

### **EDU 1225 - Focused Portfolio Development**

*Credits: 1*

This course provides students with the opportunity to request credit for college-level learning gained by professional experience, training, or independent study. Students will explore, articulate, and document their learning by developing a focused portfolio requesting up to twelve course credits and four practicum credits in a specific academic discipline. Credit requests will be reviewed by the VSC Office of External Programs. Recommended prior learning: English Composition or equivalent writing skills, and fundamental computer skills. Students must consult an academic advisor before enrolling.

Prerequisites: Students must meet basic skills policy requirements. No other course prerequisites required.

*\*Before enrolling, students should consult the Academic Support Services Office in Dewey Hall at 802-635-1259.*

### **EDU 1240 - Assessment of Prior Learning**

*Credits: 3*

This course provides an opportunity for students to earn college credit for prior learning acquired either on the job, through independent study, or in other settings. Students explore past learning experiences and identify future educational goals. Students develop an individual portfolio describing and documenting college-level prior learning. Upon successful completion of the course, students may submit their portfolios to the VSC Office of External Programs for review of credit requests. Recommended prior learning: English Composition or equivalent writing skills, and fundamental computer skills. Students must consult an academic advisor before enrolling.

Prerequisites: Students must meet basic skills policy requirements. No other course prerequisites required.

*\*Before enrolling, students should consult the Academic Support Services Office in Dewey Hall at 802-635-1259.*

## Credit by Examination

Students attending one of the five institutions of the Vermont State Colleges, or members of the military, can sign up for one of two testing options which are offered through the Prior Learning Assessment office in Montpelier as follows:

- The College Level Examination Program (CLEP) offers more than 30 tests in areas such as composition, literature, history, social sciences, science, mathematics, business, and world language. Check [www.clep.org](http://www.clep.org) (<http://www.clep.org>) for more information.
- The DSST Program (formerly DANTES Subject Standardized Tests) helps you receive college credits through more than 30 exams in college subject areas such as social sciences, mathematics, applied technology, business, physical sciences, and humanities. Check [www.getcollegetcredit.com](http://www.getcollegetcredit.com) (<http://www.getcollegetcredit.com>) for more information.

Testing is straightforward and reasonably priced. You pay only the testing fee per test. Tests carry three to six credits. Check the list of available tests and make your testing appointment by calling 802-828-4064. Tests are computer-based and are administered at the Prior Learning Assessment Office in Montpelier. Pre-testing practice materials are available to help you test successfully. Most test outcomes are available instantly.

Note: Students who are granted credit on the basis of College Level Examination Program ("CLEP") examinations, military credit, lifetime experience portfolios, AP courses, or other similar circumstances (as determined by the institution where the student is matriculated) shall receive "CR" in the grade field. CR distinguishes the credit from TR, which is used for credits that are transferred in from another college or university.

## Internships

Internship placements exist for matriculated students who wish to gain practical experience in a particular field. Internships are individually designed to meet the needs of students. Each student is assigned a faculty member from JSC and a site supervisor to ensure successful completion of the work experience. The eligibility requirements for participation in an internship are established by the faculty in each academic department. Internships in every major, at both upper and lower levels, are available for one through 12 credits; each credit hour represents a minimum of 40 work hours (except for HTM internships, which require 80 hours per credit). Internships are graded on a Pass/No Pass basis only. In addition to regular, per credit tuition charges, a \$45 internship fee will be assessed and charged to the student's account. *[Students should make arrangements for their internship and submit the completed internship application in the semester **prior** to the semester in which the internship begins.]*

## Independent Study

Independent studies are more academic and research-based in nature and often replace a regular course. Each student pursuing an independent study works under the direct and regular supervision of a faculty member. The goals, objectives and performance measures for independent studies are defined in a formal contract between the faculty supervisor and the student, and approved by the Provost or his/her designee. For all students, a maximum of 21 credits of independent study can be taken during pursuit of a bachelor's degree. In addition to regular per credit tuition charges, a \$30/credit fee will be assessed and charged to the student's account.

Students receiving veterans' educational benefits must comply with specific V.A. regulations with regard to independent study. (See Veterans' Benefits)

## **Summer Course Offerings**

Johnson State College offers courses online, in the community, and on campus during the summer. See the Summer Bulletin and the JSC website for specific course information, rates and registration procedures.

Tuition for summer is charged at the regular in-state rate for Vermont residents and at 150 percent of the in-state rate for all out-of-state students.

## **National Student Exchange**

The National Student Exchange (NSE), coordinated out of the Advising & Registration Center, is a network of nearly 200 institutions of higher education in the United States and Canada. Through NSE, JSC students who meet eligibility requirements can spend a semester or a year at one or more of these institutions, earning credits toward their JSC degree. In addition, international exchange opportunities are available through participating institutions that open their study abroad programs to NSE exchange students. Following a semester or year exchange, students return to JSC to complete their degrees.

## **Taking Courses as a Non-Degree Student**

Non-degree students are students who wish to take one or more undergraduate courses at JSC for college credit but who are not formally admitted as matriculated (degree-seeking) students. To be eligible to enroll in courses as a non-degree student, students must have a high school diploma or a GED. Students who wish to enroll as a non-degree student should request registration information from the Advising and Registration Center. Non-degree students may enroll in all courses listed in the catalog, if space is available. In most cases, non-degree students are ineligible for state, federal or college-sponsored financial aid; however, they may be eligible for the VSAC non-degree grant. (Graduate courses are generally available only to students who have completed a 4-year degree.)

## **Extension Courses**

The College occasionally offers special courses to selected audiences at various locations. These courses are not listed in this catalog but are separately advertised or sponsored through agencies or other institutions.

## **Exiting from the College**

A student voluntarily exiting from the College must do so formally and in writing by completing a Student Exit Notification & Leave of Absence Form.

The transcripts of students exiting the College after the beginning of the semester and prior to the withdrawal deadline (week nine) will show W grades for all courses enrolled in that semester. The transcripts of students exiting the College after the ninth week will show earned grades of A-F submitted by their instructors at the end of the semester.

Students who exit from the College and who are not on an approved Leave of Absence (see below) may reapply by making formal application with the Admissions Office. The W grades received will be used in making an admission decision. For refunds on room, meal plan and tuition charges, see the Refund Policy in this catalog.

## **Leave of Absence**

Students in good academic standing (minimum 2.00 GPA if 30 or more earned credits; minimum 1.75 GPA if fewer than 30 earned credits) may take a leave of absence from the College for up to three consecutive semesters (including summer). Students who have not enrolled for four consecutive semesters at the College are considered inactive and must reapply for admission prior to re-enrollment. Inactive students who subsequently return to the College may be subject to the applicable catalog degree requirements of the semester of their re-enrollment. Students who do not have any earned JSC credits, or whose cumulative GPA is not in good standing, are not eligible for a leave of absence and must reapply to the College when they would like to resume their studies.

## **Requesting a Transcript**

Johnson State College uses *Parchment Exchange* as our trusted agent for processing transcript requests as well as delivering official academic transcripts electronically. This is a "green initiative" that provides the fastest delivery time and enables tracking of delivery and receipt. For more information, see <http://www.jsc.edu/offices-non-academic-departments/registrar-office/transcripts/>.

Transcripts for students with past-due bills or other obligations to any of the Vermont State Colleges will not be released until all bills are paid. Students requesting a transcript toward the end of any semester should indicate whether they want it sent immediately or whether it should be held until final grades are recorded. In the latter case, transcripts will not be sent out until at least the third week following the end of the semester.

## **Appeal of Academic Policies**

Students may appeal any academic regulation or decision to the Academic Status Committee of the Faculty Assembly (for campus-based students) or the Distance Learning (DL) Academic Review Board (for EDP and JSC Online students) and then to the Provost or his/her designee. The decision of the Provost or his/her designee is final and may not be appealed to the President unless otherwise noted.

## **ACADEMIC PROGRAMS**

### **Majors & Concentrations**

#### **Anthropology & Sociology (B.A.)**

With integrative study in anthropology and sociology, students investigate and learn to appreciate how diversities and social-structural arrangements among people affect the distribution of power and the ability of people to live meaningful, sustainable

lives and co-exist in a fair, socially just world. Anthropology explores the range of cultural and biological differences and similarities among all peoples; topics include evolution, environment, symbolism, values, art, healing, religion and consciousness. Sociology investigates social interaction, the societal forces of inequality and power, and how social structures, economics, politics, education, religion, technology and the media affect the way we behave, interact and view the world.

## Learning Outcomes

Anthropology & Sociology graduates should be able to demonstrate:

1. Knowledge of the concepts, theories and methodologies of cultural and social forces and their impact on personal life choices, community relationships, national issues and globalization.
2. Holistic, interdisciplinary critical thinking in a way that integrates oral, written, visual, geographic, computer-based and media literacy skills, to evaluate and communicate the "bigger picture" of societal institutions and multi-cultural forces on our personal choices, our societal arrangements and our global involvements.
3. Cultural diversity skills that acknowledge the many beliefs, values, languages, norms, sanctions, symbols and technologies that inform lifestyles across the globe.
4. Informed knowledge of the power of social and cultural forces to bear upon both personal life choices and on civic responsibility and accountability to co-create a socially just, diverse and sustainable world.
5. Preparedness to further their education or enter careers that require interpersonal, multicultural knowledge and "people skills" in diversity, global awareness and social justice. Career options include education, personnel management, social service agencies, government positions doing research and training, criminal justice and international intelligence agencies.

## Anthropology & Sociology Curriculum

### Required Core Courses (15 credits)

- ANT-1010 Introduction to Cultural Anthropology 3 credits
- SOC-1010 Introduction to Sociology 3 credits
  
- ANT-3110 Development of Anthropological Thinking 3 credits **OR**
- SOC-4020 Sociological Theory 3 credits
  
- ANT-3120 Science, Research Methods & Ethics 3 credits
- ANT-4720 Senior Seminar in Anthropology/Sociology 3 credits

### Electives (18 credits)

Take at least 6 credits from the following:

- ANT-3020 Religion, Culture & Alternate Realities 3 credits
- ANT-3040 Culture Change in the Modern World 3 credits
- ANT-3130 Culture & Personality 3 credits
- ANT-4010 Anthropology of Death 3 credits
- ANT-4020 Multicultural Health, Illness & Healing 3 credits

- ANT-4730 Topical Seminar in Anthropology 1-3 credits

Take at least 6 credits from the following:

- SOC-2040 Race/Ethnicity, Class & Gender 3 credits
- SOC-2050 Drugs, Herbs & Society 3 credits
- SOC-2140 Sociolinguistics 3 credits
- SOC-2150 Civic Engagement: The Heart of Social Change 3 credits
- SOC-3020 Environment & Society 3 credits
- SOC-3040 Social Movement, Culture & Activism 3 credits
- SOC-3050 Gender & Society 3 credits
- SOC-3060 Sexuality & Intimacy 3 credits
- SOC-3080 Wellness & Alternative Medicine 3 credits
- SOC-3130 Mass Media & Society 3 credits
- SOC-3230 Alternative Medicine, Science & Disease 3 credits
- SOC-4010 Family Violence 3 credits
- SOC-4030 Global Health, Diversity & Policy 3 credits
- SOC-4730 Topical Seminar in Sociology 1-3 credits

Optional: Take no more than 6 credits from the following:

- CSV-1011 Principles in Community Service Learning 2 credits
- CSV-1012 Community Service Learning 1 credits
- CSV-3010 Leadership through Volunteer Service Learning 1 credits
- FRE-1111 French I 3 credits **AND**
- FRE-1111L French I Lab 1 credits
- FRE-3010 Culture & Civilization through Correspondence & Conversation 3 credits
- HIS-2210 Women in U.S. History 3 credits
- HIS-3450 Women in European History 3 credits
- HIS-3225 Latin America: Mexico to Chile; History, Politics, Cultures 3 credits
- HUM-3150 People & Cultures of the Middle East & North Africa 3 credits
- HUM-3160 African Culture 3 credits
- MUS-3050 The Social History of Rock & Roll 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits
- PSY-3230 Psychology of Gender 3 credits
- SPA-1011 Spanish I 3 credits **AND**
- SPA-1011L Spanish I 1 credits

Total: 33 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Anthropology & Sociology (B.A.): Criminal Justice concentration**

This concentration in the B.A. in Anthropology & Sociology program goes beyond the study of law and crime to explore complex issues of social justice related to crime, punishment and victimization, including race, class, gender and sexuality. Students explore current trends and controversies and gain cross-cultural competencies needed to work successfully with diverse populations. A distinguishing feature of this program is its emphasis on the growing field of restorative justice, a technique that involves working with victims as well as offenders.

**Students graduate with a B.A. in Anthropology & Sociology with a concentration in Criminal Justice.** The Anthropology & Sociology major itself develops in students an understanding of diversities and social structural arrangements among people affect the distribution of power and the ability of people to live meaningful, sustainable lives and co-exist in a fair and socially just world. (Note: Criminal Justice also is offered as a concentration in the B.A. in Political Science.)

The multidisciplinary concentration in criminal justice draws on JSC's rich liberal arts tradition and commitment to high-impact education -- "learning by doing" -- to explore the relationships of crime, law and social justice. It also cross-cultural competency, preparing students to communicate and work with those from a wide range of backgrounds and with disparate life experiences.

Supported by a network of community partner organizations, the program offers internships in the field of criminal justice, particularly in the arenas of restorative justice and victim advocacy as well as in border patrol and other areas of law enforcement. Students complete these internships in their junior or senior year along with a concurrent senior seminar.

A range of disciplines are brought to bear on criminal justice, including anthropology, political science, psychology and sociology. The program prepares student for a careers in law enforcement and criminal investigation, crime analysis, juvenile justice, victim advocacy, restorative justice and community development, social justice and public policy. A criminal justice background also prepares students to pursue careers in law, from working as paralegals and legal assistants to attending law school.

## **Learning Outcomes**

In addition to meeting the learning outcomes of the B.A. in Anthropology & Sociology, upon completion of the concentration in criminal justice, students should be able to:

1. Critically evaluate key theories about crime and criminal behavior.
2. Critically assess existing criminal justice systems with the aim of improving their condition and function.
3. Identify and assess alternative solutions to problems associated with existing models of crime control.
4. Develop and demonstrate sufficient self-awareness to understand the influence of personal biases and values in interacting with diverse groups.
5. Identify and analyze ways in which oppression, privilege, discrimination, and social and economic disadvantage contribute to inequalities and injustices within criminal justice systems.
6. Understand key issues and approaches in the field of criminal justice, including mental health, substance abuse, youth development, trauma-informed care, and results-based accountability.
7. Demonstrate familiarity with key skill sets in the field of criminal justice, including effective communication and conflict resolution and de-escalation.
8. Apply understandings of research methods and data collection techniques for conducting research in criminal justice.
9. Apply understandings of criminal justice policy and key controversies to field experiences.

# Anthropology & Sociology Curriculum

## Required Core Courses (15 credits)

- ANT-1010 Introduction to Cultural Anthropology 3 credits
- SOC-1010 Introduction to Sociology 3 credits
  
- ANT-3110 Development of Anthropological Thinking 3 credits **OR**
- SOC-4020 Sociological Theory 3 credits
  
- ANT-3120 Science, Research Methods & Ethics 3 credits
- ANT-4720 Senior Seminar in Anthropology/Sociology 3 credits

## Electives (18 credits)

Take at least 6 credits from the following:

- ANT-3020 Religion, Culture & Alternate Realities 3 credits
- ANT-3040 Culture Change in the Modern World 3 credits
- ANT-3130 Culture & Personality 3 credits
- ANT-4010 Anthropology of Death 3 credits
- ANT-4020 Multicultural Health, Illness & Healing 3 credits
- ANT-4730 Topical Seminar in Anthropology 1-3 credits

Take at least 6 credits from the following:

- SOC-2040 Race/Ethnicity, Class & Gender 3 credits
- SOC-2050 Drugs, Herbs & Society 3 credits
- SOC-2140 Sociolinguistics 3 credits
- SOC-2150 Civic Engagement: The Heart of Social Change 3 credits
- SOC-3020 Environment & Society 3 credits
- SOC-3040 Social Movement, Culture & Activism 3 credits
- SOC-3050 Gender & Society 3 credits
- SOC-3060 Sexuality & Intimacy 3 credits
- SOC-3080 Wellness & Alternative Medicine 3 credits
- SOC-3130 Mass Media & Society 3 credits
- SOC-3230 Alternative Medicine, Science & Disease 3 credits
- SOC-4010 Family Violence 3 credits
- SOC-4030 Global Health, Diversity & Policy 3 credits
- SOC-4730 Topical Seminar in Sociology 1-3 credits

Optional: Take no more than 6 credits from the following:

- CSV-1011 Principles in Community Service Learning 2 credits
- CSV-1012 Community Service Learning 1 credits
- CSV-3010 Leadership through Volunteer Service Learning 1 credits
  
- FRE-1111 French I 3 credits **AND**
- FRE-1111L French I Lab 1 credits
  
- FRE-3010 Culture & Civilization through Correspondence & Conversation 3 credits
- HIS-2210 Women in U.S. History 3 credits
- HIS-3450 Women in European History 3 credits
- HIS-3225 Latin America: Mexico to Chile; History, Politics, Cultures 3 credits
- HUM-3150 People & Cultures of the Middle East & North Africa 3 credits
- HUM-3160 African Culture 3 credits
- MUS-3050 The Social History of Rock & Roll 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits
- PSY-3230 Psychology of Gender 3 credits
  
- SPA-1011 Spanish I 3 credits **AND**
- SPA-1011L Spanish I 1 credits

## Criminal Justice Curriculum

*Note:* Criminal Justice requirements that meet requirements for the major are also applied toward the major.

### Required Core Courses (16 credits)

- CRJ-1010 Introduction to Criminal Justice 3 credits
  - CRJ-1040 Criminal Justice Lecture Series: Careers in the Field 1 credits
  - CRJ-4770 Criminal Justice Internship Seminar 1 credits
  - CRJ-4810 Internship in Criminal Justice 1-12 credits (Internship must be a minimum of 3 credits)
  - CRJ-4770 Senior Seminar 1 credit (pending approval)
- Criminal Justice internships must be arranged the semester prior to the semester in which they occur, and they must be taken concurrently with the Senior Seminar.*
- POS-1010 Introduction to Political Science 3 credits **OR**
  - POS-1020 American Politics & Government 3 credits
  
  - ANT-1010 Introduction to Cultural Anthropology 3 credits **OR**
  - SOC-1010 Introduction to Sociology 3 credits
  
  - CRJ-4020 Criminal Justice: Who is "Criminal"? 3 credits **OR**
  - PSY-3065 Abnormal Behavior 3 credits **OR**

- SOC-2040 Race/Ethnicity, Class & Gender 3 credits **OR**
- SOC-3170 Power, Politics & Inequality 3 credits

## Electives (take 12 credits)

- CRJ-2150 Community & Restorative Justice 3 credits
- CRJ-2230 Introduction to Criminal Law 3 credits
- CRJ-4020 Criminal Justice: Who is "Criminal"? 3 credits
- CRJ-4730 Topical Seminar in Criminal Justice 1-3 credits
- PSY-4035 Forensic Psychology 3 credits
- PHI-1040 Introduction to Ethics 3 credits
- POS-1040 African-American History & Politics 3 credits
- POS-2110 State & Local Government 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3070 Terrorism, Religion & the Nation-State 3 credits
- POS-3170 U.S. Constitutional Law 3 credits
- POS-3210 Canadian Politics 3 credits
- PSY-3065 Abnormal Behavior 3 credits
- SOC-2040 Race/Ethnicity, Class & Gender 3 credits
- SOC-3050 Gender & Society 3 credits
- SOC-3170 Power, Politics & Inequality 3 credits
- SOC-4010 Family Violence 3 credits
- SSC-1050 FYS: A Call to Action 3 credits

Total: 61-72 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Art (B.A.)

Within this program, students create work in a variety of disciplines, including drawing, painting, sculpture, printmaking, photography, digital media, ceramics and art history. The degree provides students with a critical and historical perspective for assessing their work.

## Learning Outcomes for Art Majors

### Graduating students should be able to:

1. Articulate informed and ideologically sound ideas about art, both historic and contemporary, and connect those ideas to the wider world.
2. Create artwork that is technically proficient and imbued with meaningful content.

3. Demonstrate a general understanding, ability and resourcefulness with a wide range of art media, as well as a deeper understanding of at least one medium such as drawing, painting, sculpture, photography, digital media or art history.
4. Have an openness to ideas other than their own and a willingness to take risks with their own work.
5. Have established regular studio practice, which will hopefully be lifelong, be aware of developing issues in their own work and know how to continue on their own in the pursuit of that vision, with strategies for maintaining self-awareness.

## Art Requirements

### Required Courses

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-1140 Design I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits

Subtotal: 21 credits

### Introductory Studio Electives

(Select two courses)

- ART-1231 Ceramics I 3 credits
- ART-2150 Jewelry & Metalsmithing 3 credits
- ART-2301 Photography I 3 credits
- ART-2410 Introduction to Printmaking 3 credits

Subtotal: 6 credits

### Advanced Art History & Studio\* Electives

(Select five courses, including at least one from ARH and one from ART)

- ARH-3015 Greek & Roman Art 3 credits
- ARH-3020 Art of the Renaissance 3 credits
- ARH-3060 Twentieth Century Art 3 credits
- ARH-3110 The Spiritual in Non-Western Art 3 credits
- ARH-3120 Art Criticism 3 credits
- ARH-3130 The History of Photography 3 credits
- ARH-3140 African Art 3 credits

- ARH-3150 Art of the Human Body 3 credits
- ARH-3210 Women in Art 3 credits
- ART-3031 Life Drawing 3 credits
- ART-3032 Advanced Drawing 3 credits
- ART-3040 Landscape Painting 3 credits
- ART-3222 Ceramics II 3 credits
- ART-3314 Advanced Printmaking 3 credits
- ART-3320 Monoprints 3 credits
- ART-4020 Advanced Digital Media 3 credits
- ART-4040 Advanced Photography 3 credits
- ART-4050 Advanced Painting 3 credits
- ART-4060 Advanced Digital: Graphic Design 3 credits
- ART-4070 Advanced Digital: Web Design for Artists 3 credits
- ART-4110 Visual Art & Performance 3 credits
- ART-4130 Advanced Sculpture 3 credits
- ARH-4710 Special Topics in Art History 3 credits
- ART-4710 Special Topics in Art 3 credits

Subtotal: 15 credits

\*Students may take the same Advanced Studio course more than once, but no more than twice with the same professor.

Required Capstone Course:

- ARH-4720 Seminar in Contemporary Art Issues 3 credits

Total: 45 credits

## Art Education (PreK-12) Teaching Endorsement

Students pursuing a license to teach art in grades PreK-12 must complete either the B.A. in Art or the B.F.A. in Studio Arts as well as specific teacher-education coursework and requirements. Please refer to the Unified Arts Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Biology (B.S.): General Biology concentration

This program focuses on the core sub-disciplines of biology, including molecular and cellular biology, organismal biology, ecology and evolution. Students explore the world in the field and in laboratory, working side by side with professors and peers conducting research and benefiting from advanced learning opportunities typically reserved for graduate-level students. **Students**

**graduate with a B.S. in Biology concentrating in General Biology.** Graduates who also successfully complete the required education courses for secondary licensure become candidates for a license to teach science in grades 7-12.

## Biology Programs at JSC

The study of biology serves all college majors and professionals by preparing them to understand and deal with the many biological concepts, issues and problems in their fields. Our program is designed to introduce the core sub-disciplines of biology and to offer advanced studies in organismal, human, molecular and environmental biology. Microbiologists, physiologists, zoologists, molecular biologists, field naturalists, ecologists, marine biologists, agricultural scientists, foresters, wildlife managers, physicians, therapists, nutritionists, toxicologists, science writers and teachers are a sample of the professionals who commonly begin as biology majors.

Students in the biology program explore outdoor laboratories ranging from the College's Babcock Nature Preserve to areas as diverse as tropical ecosystems and the American west. On campus, our program is supported by teaching laboratories, a greenhouse, an artificial stream laboratory, a cellular and molecular laboratory, and extensive herbarium and vertebrate museum collections.

The research activities of the faculty include understanding cell behavior at the molecular level, classification of plants, improving teaching in biology, vertebrate ecology and studying environmental pollution.

The B.S. in Biology is designed for students who desire a comprehensive training in the life sciences leading to areas in education, research or medicine. As noted above, graduates who also complete the required education courses for secondary licensure become candidates for a license to teach science in grades 7-12.

## Learning Outcomes

- **Demonstrate basic knowledge:** Students will define and explain the major concepts in the biological sciences; for example, the relationship between structure and function at all levels of organization.
- **Apply the scientific method:** Students will incorporate the major steps in the scientific method to design and carry out research studies and to test hypotheses.
- **Communicate in Science:** a) Students will communicate at a scientific level in writing and b) Students will communicate at a scientific level in oral presentations.
- **Develop technical skills:** Students will practice proper usage of scientific instrumentation and will improve techniques both in the laboratory and in the natural environment.
- **Apply quantitative analysis and mathematical reasoning:** Students will apply quantitative analysis to interpret biological data.
- **Read and analyze scientific information:** Students will read, understand, and incorporate scientific literature in their writing.
- **Discuss the relationships between science and society:** Students will integrate current biological evidence into discussion of global challenges.

## Biology Curriculum (42 credits)

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits \*+
  
- BIO-4810 Internship in Biology 1-12 credits **OR**
- BIO-4920 Senior Thesis 3 credits
  
- CHE-1031 General Chemistry I 4 credits \*

- CHE-1032 General Chemistry II 4 credits \*
- CHE-3111 Organic Chemistry I 4 credits \*
- CHE-3112 Organic Chemistry II 4 credits \*
- ENV-2210 Current Topics in Science 1 credits
- MAT-1531 Calculus I 4 credits \*
- PHY-1041 Physics I 4 credits \*
- PHY-1042 Physics II 4 credits \*

*\* These courses also fulfill requirements in the Environmental Science, Health Sciences, Outdoor Education and Wellness & Alternative Medicine programs.*

## General Biology Concentration

### Required Concentration Courses (8 credits)

- BIO-2340 Fundamentals of Ecology 4 credits
- BIO-3220 Genetics 4 credits

### Electives (choose at least 1 from each set):

#### Set 1: Mathematics

- MAT-2030 Probability & Statistics 3 credits
- MAT-2532 Calculus II 4 credits

#### Set 2: Cell/Molecular Biology

- BIO-3125 Biological Chemistry 4 credits
- BIO-3130 Cellular Biology: A Molecular Approach 4 credits \*
- BIO-3140 Microbiology 4 credits \*

#### Set 3: Organismal Biology

- BIO-2011 Human Anatomy & Physiology I 4 credits
- BIO-2012 Human Anatomy & Physiology II 4 credits
- BIO-2145 Plant Biology 4 credits
- BIO-2310 Invertebrate & Vertebrate Zoology 4 credits
- BIO-3160 Animal Behavior 4 credits
- BIO-3170 Mammalogy 4 credits
- BIO-3320 Ornithology 4 credits

## Set 4: Ecology/Evolution

- BIO-3260 Limnology 4 credits
- BIO-3280 Environmental Toxicology 4 credits \*
- BIO-3290 Conservation Biology 3 credits \*

Total: 65-66 credits

*\* These courses also fulfill requirements in the Environmental Science, Health Sciences, Outdoor Education and Wellness & Alternative Medicine programs.*

*+ These courses also fulfill the General Education Curriculum requirements.*

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Biology (B.S.): Pre-Medical concentration

This program prepares students for a variety of positions in medicine, science and research as well as admission to medical school. In addition to core biology courses and labs (including physics, calculus, and general and organic chemistry), students take upper-level electives in anatomy and physiology, pharmacology, nutrition, genetics, microbiology, kinesiology and related topics. **Students graduate with a B.S. in Biology with a concentration in Pre-Medical Biology.** Graduates who successfully complete the required education courses for secondary licensure become candidates for a license to teach science in grades 7-12.

## Biology Programs at JSC

The study of biology serves all college majors and professionals by preparing them to understand and deal with the many biological concepts, issues and problems in their fields. Our program is designed to introduce the core sub-disciplines of biology and to offer advanced studies in organismal, human, molecular and environmental biology. Microbiologists, physiologists, zoologists, molecular biologists, field naturalists, ecologists, marine biologists, agricultural scientists, foresters, wildlife managers, physicians, therapists, nutritionists, toxicologists, science writers and teachers are a sample of the professionals who commonly begin as biology majors.

Students in the biology program explore outdoor laboratories ranging from the College's Babcock Nature Preserve to areas as diverse as tropical ecosystems and the American west. On campus, our program is supported by teaching laboratories, a greenhouse, an artificial stream laboratory, a cellular and molecular laboratory, and extensive herbarium and vertebrate museum collections.

The research activities of the faculty include understanding cell behavior at the molecular level, classification of plants, improving teaching in biology, vertebrate ecology and studying environmental pollution.

The B.S. in Biology is designed for students who desire a comprehensive training in the life sciences leading to areas in education, research or medicine. As noted above, graduates who also complete the required education courses for secondary licensure become candidates for a license to teach science in grades 7-12.

## Learning Outcomes

- **Demonstrate basic knowledge:** Students will define and explain the major concepts in the biological sciences; for example, the relationship between structure and function at all levels of organization.
- **Apply the scientific method:** Students will incorporate the major steps in the scientific method to design and carry out research studies and to test hypotheses.
- **Communicate in Science:** a) Students will communicate at a scientific level in writing and b) Students will communicate at a scientific level in oral presentations.
- **Develop technical skills:** Students will practice proper usage of scientific instrumentation and will improve techniques both in the laboratory and in the natural environment.
- **Apply quantitative analysis and mathematical reasoning:** Students will apply quantitative analysis to interpret biological data.
- **Read and analyze scientific information:** Students will read, understand, and incorporate scientific literature in their writing.
- **Discuss the relationships between science and society:** Students will integrate current biological evidence into discussion of global challenges.

## Biology Curriculum (42 credits)

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits \*+
  
- BIO-4810 Internship in Biology 1-12 credits **OR**
- BIO-4920 Senior Thesis 3 credits
  
- CHE-1031 General Chemistry I 4 credits \*
- CHE-1032 General Chemistry II 4 credits \*
- CHE-3111 Organic Chemistry I 4 credits \*
- CHE-3112 Organic Chemistry II 4 credits \*
- ENV-2210 Current Topics in Science 1 credits
- MAT-1531 Calculus I 4 credits \*
- PHY-1041 Physics I 4 credits \*
- PHY-1042 Physics II 4 credits \*

*\* These courses also fulfill requirements in the Environmental Science, Health Sciences, Outdoor Education and Wellness & Alternative Medicine programs.*

## Pre-Medical Concentration Curriculum

Take at least 16 credits from the following:

- AHS-3050 Introduction to Pharmacology 3 credits
- AHS-3230 Physiology of Exercise 4 credits
- AHS-3120 Kinesiology 3 credits
- BIO-2011 Human Anatomy & Physiology I 4 credits
- BIO-2012 Human Anatomy & Physiology II 4 credits
- BIO-2310 Invertebrate & Vertebrate Zoology 4 credits
- BIO-3125 Biological Chemistry 4 credits
- BIO-3130 Cellular Biology: A Molecular Approach 4 credits
- BIO-3140 Microbiology 4 credits
- BIO-3180 Nutrition 3 credits
- BIO-3220 Genetics 4 credits
- MAT-2030 Probability & Statistics 3 credits
- MAT-2532 Calculus II 4 credits

Total: 58 credits (73 with recommended courses below)

## Additional Recommended Courses (15 credits)

Medical schools generally look for students who have a solid education in the liberal arts. Courses in humanities and the social sciences are strongly recommended, including the following.

- PSY-1010 Introduction to Psychology 3 credits
- PSY-3330 Psychology of Addictions 3 credits
- PSY-4010 Biological Psychology 3 credits
- SOC-1010 Introduction to Sociology 3 credits
- SOC-3060 Sexuality & Intimacy 3 credits

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Biology: Field Naturalist (B.A.)**

The B.A. in Biology: Field Naturalist is designed for students who wish to pursue meaningful careers as field scientists, naturalists, or researchers. Students learn the skills to work in the field for private, not-for-profit, local, state, and federal

governments and organizations. Field naturalists have a broad knowledge of ecology, organismal biology, field geology and soils, environmental assessment, conservation biology, and wildlife management. Field naturalists can effectively communicate technical scientific information to a broad range of professional and lay audiences including the general public, planners and regulators, and government officials.

## Learning Outcomes

- **Demonstrate basic knowledge:** Students will define and explain the major concepts in the biological sciences; for example, the relationship between structure and function at all levels of organization.
- **Apply the scientific method:** Students will incorporate the major steps in the scientific method to design and carry out research studies and to test hypotheses.
- **Communicate in Science:** a) Students will communicate at a scientific level in writing and b) Students will communicate at a scientific level in oral presentations.
- **Develop technical skills:** Students will practice proper usage of scientific instrumentation and will improve techniques both in the laboratory and in the natural environment.
- **Apply quantitative analysis and mathematical reasoning:** Students will apply quantitative analysis to interpret biological data.
- **Read and analyze scientific information:** Students will read, understand, and incorporate scientific literature in their writing.
- **Discuss the relationships between science and society:** Students will integrate current biological evidence into discussion of global challenges.

## Required Core Courses

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits +
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits \* +
- BIO-2145 Plant Biology 4 credits
- BIO-2310 Invertebrate & Vertebrate Zoology 4 credits
- BIO-2340 Fundamentals of Ecology 4 credits \*
- CHE-1055 General Chemistry, Organic Chemistry & Biochemistry 4 credits \*
- ENV-1050 Introduction to Earth Science 4 credits \* +
- ENV-1110 Introduction to Environmental Problems 3 credits \*
  
- ENV-2050 The Natural History of Vermont 3 credits \* **OR**
- BIO-2130 Natural History of the Yellowstone Plateau 3 credits \*
  
- ENV-2210 Current Topics in Science 1 credits (fall only)
  
- BIO-4810 Internship in Biology 1-12 credits (3-12 credits) **OR**
- BIO-4920 Senior Thesis 3 credits (3-12 credits)

Electives (Take at least 16 credits from the following; they can be from more than one theme):

## Theme 1: Science

- BIO-3260 Limnology 4 credits (Note: This course has CHE-1031, General Chemistry I, as a prerequisite.)
- BIO-3270 Forest Ecology 4 credits (Note: This course has CHE-1031, General Chemistry I, as a prerequisite.)
- BIO-3290 Conservation Biology 3 credits
- BIO-4220 Wildlife Ecology & Management 4 credits
- ENV-3240 Fundamentals of Soil Science 4 credits (Note: This course has CHE-1031, General Chemistry I, as a prerequisite.)
- ENV-3310 Applications in GIS 4 credits
- GEY-3120 Field Geology 4 credits  
An upper-level organismal-biology course with a significant field/lab component, approved by your academic advisor, is also a course option in this category.

## Theme 2: Communication

- ART-2430 Introduction to Video Production 3 credits
- ENG-3140 The Creative Essay 3 credits (Note: This course has either ENG-2101, Creative Writing (3 cr.), or ENG-2051, Introduction to Newswriting (3 cr.), as a prerequisite.)
- ENG-4130 The Form & Theory of Nonfiction 3 credits (Note: It is recommended that one 3000-level writing course (3 cr.) be taken as a prerequisite.)
- ENV-2025 Natural History Photography 3 credits
- ENV-3220 Environmental Interpretation 3 credits

## Theme 3: Business

- CIS-2220 Website Design 3 credits  
Taking/passing the following courses earns a Certificate in Small Business Management:
- ACC-2121 Financial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2210 Small Business Management 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-3131 Business Law I 3 credits

## Total: 56-65 credits

*\* These courses also fulfill requirements in the Environmental Science, Health Sciences, Outdoor Education and Wellness & Alternative Medicine programs.*

*+ These courses also fulfill the General Education Curriculum requirements.*

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in

Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Business (B.A.): Accounting concentration

Students in this program complete a core of business courses plus 20 credits in accounting and financial reporting. Students gain specialized knowledge in accounting and financial reporting as well as an integrated overview of the economic activities of business entities. An internship is required. **Graduates earn a B.A. in Business with a concentration in Accounting** and are prepared for entry-level positions in public accounting, business, government and nonprofit organizations.

Students who intend to become licensed or certified public accountants (CPAs) in Vermont are advised that they must complete the following *additional* academic requirements as adopted by the state in July 2014: They must complete a total of 150 credit hours (30 more than a typical bachelor's degree), and 42 of those credits must be in accounting-related courses. This may be accomplished by taking summer classes as well as a full course load (18 credits) during the fall and spring semesters or by enrolling in JSC's Proficiency in Accounting Certificate program following graduation. (Note: In addition to the *academic* requirements, Vermont regulations require one year of accounting work experience in order to gain licensure and sit for the national CPA exam.)

## Business Programs at JSC

The B.A. in Business is designed to provide students with the skills, knowledge and wisdom necessary to run their own business, be successful in an organization of their choosing and be prepared for graduate study. The program encompasses product and service planning, organizational structure, leadership, human resource management, marketing and financial management. Students engage in both classroom and high-impact learning experiences, including internships with businesses and organizations. By agreement with Clarkson University, **graduates who successfully complete specific courses through this program may earn an M.B.A. with one year of graduate study** at Clarkson. Refer to the Business & Economics Department page for details.

## Learning Outcomes

The B.A. in Business is designed to produce graduates who can:

1. Successfully apply classroom knowledge to real-world experiences.
2. Demonstrate industry-appropriate communication skills and the ability to work effectively with diverse groups in a team environment.
3. Demonstrate the ability to adapt themselves to a changing business environment while encouraging others to do so as well.
4. Demonstrate the ability to amass, evaluate and interpret complex information to make effective business decisions.
5. Demonstrate the appropriate business norms and ethics, as well as mastery of the fundamental skills and knowledge required to successfully steward a business operation.

## Business Curriculum

## Required Core Courses (38 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-4720 Senior Seminar 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

*In addition, all Business students are strongly encouraged to take MAT 2030 MAT-2030 Probability & Statistics and MAT 1221 MAT-1221 Finite Mathematics to meet part of their General Education Curriculum requirements.*

## Accounting Concentration

### Required Concentration Courses (20 credits)

- ACC-2230 Federal Taxes 3 credits
- ACC-2210 Cost Accounting 3 credits
- ACC-2201 Intermediate Accounting I 4 credits
- ACC-2202 Intermediate Accounting II 4 credits
- BUS-4810 Internship in Business Management 1-12 credits (6 credits)

**Total: 58 credits**

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Business (B.A.): Hospitality & Tourism Management concentration**

Tourism and hospitality is one of the worlds' fastest growing industries. This program includes a core of business courses, with additional courses in hospitality and tourism management. Students complete more than 480 hours of documented experiential learning over four years, including a mandatory internship. **Graduates earn a B.A. in Business with a concentration in Hospitality & Tourism Management.**

Tourism and hospitality is one of the world's fastest growing industries, employing millions around the globe and providing exciting career opportunities near and far. Business students in this concentration will complete a rigorous internship to complement their learning. Past internships included our local area ski resorts, the Boston Harbor Hotel, the Dunes in South Carolina and the Sheraton Hotel in Oahu, Hawaii.

Students complete both business and HTM courses and select from a broad range of electives to round out their education. Faculty connections and formal partnerships enable JSC to connect students with top resorts, hotels, restaurants and event-management firms for part-time employment during their college years and rewarding careers following graduation.

## Business Programs at JSC

The B.A. in Business is designed to provide students with the skills, knowledge and wisdom necessary to run their own business, be successful in an organization of their choosing and be prepared for graduate study. The program encompasses product and service planning, organizational structure, leadership, human resource management, marketing and financial management. Students engage in both classroom and high-impact learning experiences, including internships with businesses and organizations. By agreement with Clarkson University, **graduates who successfully complete specific courses through this program may earn an M.B.A. with one year of graduate study** at Clarkson. Refer to the Business & Economics Department page for details.

## Learning Outcomes

The B.A. in Business is designed to produce graduates who can:

1. Successfully apply classroom knowledge to real-world experiences.
2. Demonstrate industry-appropriate communication skills and the ability to work effectively with diverse groups in a team environment.
3. Demonstrate the ability to adapt themselves to a changing business environment while encouraging others to do so as well.
4. Demonstrate the ability to amass, evaluate and interpret complex information to make effective business decisions.
5. Demonstrate the appropriate business norms and ethics, as well as mastery of the fundamental skills and knowledge required to successfully steward a business operation.

## Business Curriculum

### Required Core Courses (38 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-4720 Senior Seminar 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

*In addition, all Business students are strongly encouraged to take MAT 2030 MAT-2030 Probability & Statistics and MAT 1221 MAT-1221 Finite Mathematics to meet part of their General Education Curriculum requirements.*

## HTM Concentration

### Required Concentration Courses (21 credits)

- HTM-1010 Survey of Hospitality & Tourism 3 credits
- HTM-3010 Food & Beverage Management 3 credits
- HTM-3110 Lodging & Resort Operations 3 credits
- HTM-3230 Facility Planning & Design 3 credits
- BUS-3440 Ecotourism and Sustainability 3 credits
- BUS-4810 Internship in Business Management 1-12 credits (6 credits)

Total: 59 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Business (B.A.): Management concentration

Through internships, case studies and simulations, students apply theory to actual business situations and develop skills in strategic planning, organization, leadership and human resources. The program includes a core of business courses. **Graduates earn a B.A. in Business with a concentration in Management.** This program provides students with the skills and knowledge to run their own business, succeed in an organization of their choosing, or pursue an M.B.A.

## Business Programs at JSC

The B.A. in Business is designed to provide students with the skills, knowledge and wisdom necessary to run their own business, be successful in an organization of their choosing and be prepared for graduate study. The program encompasses product and service planning, organizational structure, leadership, human resource management, marketing and financial management. Students engage in both classroom and high-impact learning experiences, including internships with businesses and organizations. By agreement with Clarkson University, **graduates who successfully complete specific courses through this program may earn an M.B.A. with one year of graduate study** at Clarkson. Refer to the Business & Economics Department page for details.

## Learning Outcomes

The B.A. in Business is designed to produce graduates who can:

1. Successfully apply classroom knowledge to real-world experiences.
2. Demonstrate industry-appropriate communication skills and the ability to work effectively with diverse groups in a team environment.
3. Demonstrate the ability to adapt themselves to a changing business environment while encouraging others to do so as well.
4. Demonstrate the ability to amass, evaluate and interpret complex information to make effective business decisions.
5. Demonstrate the appropriate business norms and ethics, as well as mastery of the fundamental skills and knowledge required to successfully steward a business operation.

## Business Curriculum

### Required Core Courses (38 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-4720 Senior Seminar 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

*In addition, all Business students are strongly encouraged to take MAT 2030 MAT-2030 Probability & Statistics and MAT 1221 MAT-1221 Finite Mathematics to meet part of their General Education Curriculum requirements.*

### Management Concentration Curriculum (18 credits)

- BUS-3150 Production/Operations Management 3 credits
- BUS-3230 Financial Management 3 credits
- BUS-4060 Strategic Management 3 credits
- BUS-4810 Internship in Business Management 1-12 credits (6 credits)
- CIS-1430 Spreadsheets 3 credits

**Total: 56 credits**

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Business (B.A.): Marketing concentration

The B.A. in Business with a concentration in Marketing connects business theory and practice with the modern-day realities of lightning-speed advances in technology, social media and "big data" capabilities. Through a required internship, case studies, simulations and real projects completed for local businesses, students develop 21st-century skills in business and marketing.

**Graduates earn a B.A. in Business with a concentration in Marketing.**

Students conduct and analyze market research, develop marketing plans and examine how businesses and organizations respond to marketing challenges. In the process, they develop teamworking and presentation skills, the ability to plan in advance and think strategically, and the knowledge and skills to use social media and the Internet to build both a brand and a base of loyal customers. Supported by a diverse liberal arts curriculum, students gain a solid foundation in communications, critical thinking, problem solving, decision-making and creativity that forms the basis for success in this high-demand field.

## Business Programs at JSC

The B.A. in Business is designed to provide students with the skills, knowledge and wisdom necessary to run their own business, be successful in an organization of their choosing and be prepared for graduate study. The program encompasses product and service planning, organizational structure, leadership, human resource management, marketing and financial management. Students engage in both classroom and high-impact learning experiences, including internships with businesses and organizations. By agreement with Clarkson University, **graduates who successfully complete specific courses through this program may earn an M.B.A. with one year of graduate study** at Clarkson. Refer to the Business & Economics Department page for details.

## Learning Outcomes

The B.A. in Business is designed to produce graduates who can:

1. Successfully apply classroom knowledge to real-world experiences.
2. Demonstrate industry-appropriate communication skills and the ability to work effectively with diverse groups in a team environment.
3. Demonstrate the ability to adapt themselves to a changing business environment while encouraging others to do so as well.
4. Demonstrate the ability to amass, evaluate and interpret complex information to make effective business decisions.
5. Demonstrate the appropriate business norms and ethics, as well as mastery of the fundamental skills and knowledge required to successfully steward a business operation.

## Business Curriculum

### Required Core Courses (38 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-2410 Human Resource Management 3 credits

- BUS-3131 Business Law I 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-4720 Senior Seminar 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

*In addition, all Business students are strongly encouraged to take MAT 2030 MAT-2030 Probability & Statistics and MAT 1221 MAT-1221 Finite Mathematics to meet part of their General Education Curriculum requirements.*

## Marketing Concentration Curriculum (18 credits)

- BUS-3050 Principles of Sales 3 credits
- BUS-3210 Advertising 3 credits
- BUS-4030 Marketing Research 3 credits
- BUS-4810 Internship in Business Management 1-12 credits (6 credits)
- CIS-2220 Website Design 3 credits

Total: 56 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Business (B.A.): Social Entrepreneurship concentration

This concentration in the Business major is designed for students interested in the entrepreneurial pursuit of social impact. The core Business curriculum provides a strong foundation for any student looking to become a successful sector leader. However, students looking to use their skills and talents for social impact must approach their work thoughtfully, recognizing the unique challenges, opportunities, and qualities associated with trying to create social value. The Social Entrepreneurship Concentration is designed to serve students who aspire at some point in their lives to be social entrepreneurs, executives in social-purpose organizations, philanthropists, board members, or leading volunteers in their communities and the social sector. Courses in this concentration will also appeal to students interested in incorporating strategies for social impact into their business and entrepreneurial careers. **Graduates earn a B.A. in Business with a concentration in Social Entrepreneurship.**

Interdisciplinary coursework in sociology and psychology will be integrated with the theory and practice of socially responsible business management, making the curriculum relevant for traditional and social entrepreneurs as well as for those focused on business management and nonprofit management.

## Business Programs at JSC

The B.A. in Business is designed to provide students with the skills, knowledge and wisdom necessary to run their own business, be successful in an organization of their choosing and be prepared for graduate study. The program encompasses product and service planning, organizational structure, leadership, human resource management, marketing and financial management.

Students engage in both classroom and high-impact learning experiences, including internships with businesses and organizations. By agreement with Clarkson University, **graduates who successfully complete specific courses through this program may earn an M.B.A. with one year of graduate study** at Clarkson. Refer to the Business & Economics Department page for details.

## Learning Outcomes

The B.A. in Business is designed to produce graduates who can:

1. Successfully apply classroom knowledge to real-world experiences.
2. Demonstrate industry-appropriate communication skills and the ability to work effectively with diverse groups in a team environment.
3. Demonstrate the ability to adapt themselves to a changing business environment while encouraging others to do so as well.
4. Demonstrate the ability to amass, evaluate and interpret complex information to make effective business decisions.
5. Demonstrate the appropriate business norms and ethics, as well as mastery of the fundamental skills and knowledge required to successfully steward a business operation.

## Business Curriculum

### Required Core Courses (38 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-4720 Senior Seminar 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

*In addition, all Business students are strongly encouraged to take MAT 2030 MAT-2030 Probability & Statistics and MAT 1221 MAT-1221 Finite Mathematics to meet part of their General Education Curriculum requirements.*

## Social Entrepreneurship Concentration

### Required Concentration Courses (18 credits)

- CIS-1430 Spreadsheets 3 credits
- PSY-3345 The Psychology of Groups 3 credits

- BUS-4180 Leadership & Management of Nonprofit Organizations 3 credits
- BUS-4810 Internship in Business Management 1-12 credits (Students must complete a 6-credit internship.)
- BUS-4840 Social Entrepreneurship Capstone 3 credits

*Any of the above required concentration courses with no prerequisites may be taken any time after a student's sophomore year.*

**Total: 56 credits**

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Business (B.A.): Sport Management concentration**

This program reflects the fact that sports today is as much about marketing events and refining a brand as it is about working with players and scheduling events - and that strong business skills are essential for successful careers in sport management. Students complete a core of business courses plus specific courses related to the business side of sports and recreation. An internship is required. **Students graduate with a B.A. in Business with a concentration in Sport Management.** Career opportunities range from managing professional teams and arenas to overseeing the marketing and finances of sports teams and organizations.

## Business Programs at JSC

The B.A. in Business is designed to provide students with the skills, knowledge and wisdom necessary to run their own business, be successful in an organization of their choosing and be prepared for graduate study. The program encompasses product and service planning, organizational structure, leadership, human resource management, marketing and financial management. Students engage in both classroom and high-impact learning experiences, including internships with businesses and organizations. By agreement with Clarkson University, **graduates who successfully complete specific courses through this program may earn an M.B.A. with one year of graduate study** at Clarkson. Refer to the Business & Economics Department page for details.

## Learning Outcomes

The B.A. in Business is designed to produce graduates who can:

1. Successfully apply classroom knowledge to real-world experiences.
2. Demonstrate industry-appropriate communication skills and the ability to work effectively with diverse groups in a team environment.
3. Demonstrate the ability to adapt themselves to a changing business environment while encouraging others to do so as well.
4. Demonstrate the ability to amass, evaluate and interpret complex information to make effective business decisions.
5. Demonstrate the appropriate business norms and ethics, as well as mastery of the fundamental skills and knowledge required to successfully steward a business operation.

## Business Curriculum

## Required Core Courses (38 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-4720 Senior Seminar 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

*In addition, all Business students are strongly encouraged to take MAT 2030 MAT-2030 Probability & Statistics and MAT 1221 MAT-1221 Finite Mathematics to meet part of their General Education Curriculum requirements.*

## Sport Management Concentration Curriculum (18 credits)

- AHS-4030 Psychology of Sports & Exercise 3 credits
- BUS-3420 Athletic Facility & Event Management 3 credits
- BUS-1350 Sport & Society, Sport Management Issues and Concepts 3 credits
- BUS-4320 Sport Promotion & Branding 3 credits
- BUS-4810 Internship in Business Management 1-12 credits (6 credits)

Total: 56 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Childhood Education (B.A.); with endorsement in Elementary & Special Education**

The B.A. in Childhood Education prepares students to become teachers licensed in both Elementary Education (K-6) and Special Education (K-8). With careful planning, a full-time student can complete the degree and earn both licensure endorsements in just four years. Graduates who successfully complete the degree become candidates for a Level I Professional Educator's License issued by the Vermont Agency of Education. This license is required in order to work as a public school teacher in Vermont; it also is recognized and accepted by more than 40 other states, districts and territories.

Through courses and practicum experiences, students learn the theories, research, standards and practices that provide a solid foundation for educators who are passionate about teaching, inclusive and progressive in their practices, modern and up to date in their techniques, and committed to social equity and the delivery of education to diverse learners. Careful attention is given to the growth of children as individuals whose perceptions, interests, joys, strengths and challenges are formed within a community and through meaningful engagement with others.

Students who intend to teach in grades K-6 must declare Childhood Education as their academic major and apply to JSC's **Teacher Education Program in Inclusive Elementary Education** after completing their first education course. *Important:* Declaring a major in Childhood Education is not the same as being accepted into this Teacher Education Program; see Applying to a Teacher Education Program at JSC below.

Most courses must be taken in a specific order; students should check advisement forms, program evaluations and prerequisites for details. Students must earn a B- or better in all courses with an EDU designator.

Theoretical Framework & Learning Pursuits

Applying to a Teacher Education Program at JSC

Advancing through a Teacher Education Program at JSC

## Required Education Courses (63 credits)

- EDU-2360 Perspectives on Learning in a Diverse Society 3 credits
  - EDU-2365 The Ecology of Human Experience: Development, Culture & Identity 3 credits
  - EDU-2370 The Contemporary School 3 credits
  - EDU-3460 Literature & Media for Children & Youth 3 credits
  - EDU-3265 Instructional Dynamics for the Elementary Educator - Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Lessons; Part I: Language, Literacy, & Literature for Diverse Learners 3 credits
  - EDU-3266 Instructional Dynamics for the Elementary Educator - Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Lessons; Part II: Numeracy & Quantitative Reasoning for Diverse Learners 3 credits
  - EDU-3311 Foundations of Inclusive Practices 3 credits
  - EDU-3440 Teaching Toward Democracy 3 credits
  - EDU-3100 Literacy Intervention, Assessment & Strategies 3 credits
  - EDU-3025 Evaluating Characteristics of Diverse Learners 3 credits
  - EDU-4630 Integrated Elementary Methods Practicum: Intention, Knowledge & Presence 6 credits
  - EDU-3125 Technology for Integrating Instruction 3 credits
  - EDU-4640 Special Education Practices & Procedures 6 credits
  - EDU-4820 Elementary Student Teaching 12 credits
  - EDU-4051 Strategies to Promote Inclusive Practices 3 credits
  - EDU-4650 Capstone & Thesis Seminar 3 credits
- AND**
- EDU-TEW1 Teacher Education Workshop 1: Introduction to Teacher Education 0 credits
  - EDU-TEW2 Teacher Education Workshop 2: Application for Practicum I 0 credits
  - EDU-TEW3 Teacher Education Workshop 3: Application for Practicum II 0 credits
  - EDU-TEW4 Teacher Education Workshop 4: Application for student teaching 0 credits
  - EDU-TEW5 Teacher Education Workshop 5: Application for a Verification Check 0 credits

## Required Elementary Education Liberal Arts & Sciences Concentration (30-31 credits)

In addition to the Education courses listed above, all Childhood Education majors must complete the Elementary Education Liberal Arts & Sciences Concentration. This concentration is divided into two areas: Quantitative & Causative Studies (9-10 credits) and Humanities & Cultural Studies (21 credits). Students must earn a cumulative GPA of 3.0 in this concentration to be eligible for a Level 1 Professional Educator's License.

### Quantitative & Causative Studies (9-10 credits)

#### Earth Science (choose 1 course)

- ENV-1050 Introduction to Earth Science 4 credits
- ENV-1040 Introduction to Oceanography 3 credits
- ENV-1090 Introduction to Weather, Climate & Climate Change 3 credits
- PHY-1041 Physics I 4 credits

#### Geometric Design

- MAT-3040 Geometrical Reasoning 3 credits

#### Engineering Science

- EDU-3445 Applied Mechanics I 3 credits

### Humanities & Cultural Studies (21 credits)

#### U.S. History (choose 1 course)

- HIS-1211 American History I 3 credits
- HIS-1212 American History II 3 credits
- HIS-2210 Women in U.S. History 3 credits
- HIS-3080 Colonial America: History & Life 3 credits
- HIS-3141 History of the United States in the 20th Century I 3 credits
- HIS-3142 History of the United States in the 20th Century II 3 credits

#### World History (choose 1 course)

- HIS-1111 World History I 3 credits

- HIS-1112 World History II 3 credits

## Literature

- ENG-1310 Introduction to Literature 3 credits

## Civics (choose 1 course)

- POS-1010 Introduction to Political Science 3 credits
- POS-1020 American Politics & Government 3 credits
- POS-1030 Comparative Government 3 credits

## Culture, Geography & Economics

- EDU-3425 GeoCultural Studies 3 credits

## Visual Art (choose 1 course)

- ART-1011 Drawing I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2211 Painting I 3 credits
- ART-2301 Photography I 3 credits

## Performance Art (choose 1 course)

- DAN-1010 Fundamentals of Dance 3 credits
- DAN-2010 Folk Dance 3 credits
- DAN-3010 The Renaissance Spirit 3 credits
- DAN-3180 Folk Dance II 3 credits
- DAN-3210 The Emperor Ain't Naked: A History of Western European Fashion & Social Dance from the Mid-14th Century to the Early 20th Century 3 credits
- MUS-1030 Music Fundamentals 3 credits
- THA-1041 Introduction to Theater Arts 3 credits

**Total: 93-94 credits**

## A Note About General Education Requirements

All undergraduates must complete the JSC General Education Curriculum. Students who thoughtfully select courses for the Elementary Education Liberal Arts & Sciences Concentration will be able to meet the "Integrative Perspectives" component of

the General Education Curriculum without taking additional courses. In addition, Childhood Education majors are encouraged to take the following courses to meet the "Foundational Skills" component of the General Education Curriculum in order to avoid the need to take additional courses later in their program.

## Written Expression (6 credits)

- ENG-1071 College Writing 3 credits \* **OR**  
for EDP students: ENG-1061, English Composition\* (3 credits; shared course in VSC)  
**AND**
- ENG-1072 Exposition & Analysis 3 credits **OR**
- for EDP students: ENG-1220 Rhetorical Expression 3 credits  
*\*Students who are not required to take ENG-1071 or ENG-1061 due to placement scores may complete the following to meet these requirements: **Campus-based students** may substitute ENG 3999 Writing Proficiency Exam or ENG 2005 The Self-Sufficient Writer; **EDP students** may substitute EDP-3999, the Challenge Exam.*

## Mathematics

- MAT-1080 Introduction to Quantitative Reasoning 3 credits  
Or the Quantitative Reasoning Assessment (QRA) and a Math elective
- MAT-2030 Probability & Statistics 3 credits

## Natural Science with Lab

- BIO-1210 Introduction to Biology 4 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Communications & Community Media (B.A): Photojournalism concentration**

The Photojournalism concentration of the B.A. in Communications & Community Media prepares students for careers in photojournalism. Beginning with a background in basic journalistic practices and digital media, students apply those skills to the particular demands of compelling visual documentation and narrative. Students learn essential photographic skills from the basics of composition, lighting and a focus on the ethical concerns of mass media in general and this visual medium in particular.

**Graduates earn a B.A. in Communications & Community Media with a concentration in Photojournalism.**

## Communications & Community Media Programs at JSC

This interdisciplinary program consists of three concentrations -- Print and Web Community Journalism, Photojournalism and Public Relations -- that share a common core of eight courses. It is designed to prepare students for careers in media communications, journalism and photojournalism in both print and web-based media. Students must successfully complete the

requirements for one or more of the three concentrations in addition to the core Communications & Community Media curriculum..

## Learning Outcomes

1. Students will understand and apply best practices in community journalism, public relations and photojournalism.
2. Students will understand and apply ethical principles to their communications work.
3. Students will gain competency in a variety of media platforms applicable to both print and web.
4. Students will achieve proficiency in journalistic processes, including interviewing techniques, research, story structure, AP style and writing concisely, clearly and accurately,
5. Students will understand the strengths and limitations of social media and apply that knowledge professionally.
6. Students will learn to work under the pressure of constant deadlines.
7. Students will understand current mass media theories as they apply to their concentration.

## Communications & Community Media Core Curriculum (24 credits)

- ART-2110 Introduction to Digital Media 3 credits
- ART-4025 Advanced Digital Media: Documentary & Social Media 3 credits
- CIS-2220 Website Design 3 credits
- ENG-2051 Introduction to Newswriting 3 credits
- ENG-2052 Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-3020 Feature Writing 3 credits
- ENG-4010 Issues in Journalism 3 credits
- SOC-3130 Mass Media & Society 3 credits

## Photojournalism Concentration

### Required Concentration Courses (24 credits)

- ENG-1260 Introduction to Photojournalism 3 credits
- ENG-3022 Advanced Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ART-2301 Photography I 3 credits
- ART-2430 Introduction to Video Production 3 credits
- ART-4020 Advanced Digital Media 3 credits
- ART-4040 Advanced Photography 3 credits
- ART-4140 Advanced Photojournalism 3 credits
- ART-4810 Internship in Art 1-12 credits (3 credits)

Total: 48 credits

Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Communications & Community Media (B.A.): Print & Web Community Journalism concentration**

The Print & Web Community Journalism concentration in the B.A. in Communications & Community Media prepares students for the realities of a career in journalism and equips them with the necessary skills to function successfully in a professional environment in both print and web media organizations. Course requirements prepare students to employ the best journalistic practices and to write in a variety of styles, including hard news, editorials, features, profiles and reviews. The concentration enables students to understand and apply basic ethical principles to their work in journalism and to properly understand the role, rights and responsibilities of a free press in a democratic society. **Students graduate with a B.A. in Communications & Community Media with a concentration in Print & Web Community Journalism.**

### **Communications & Community Media Programs at JSC**

This interdisciplinary program consists of three concentrations -- Print and Web Community Journalism, Photojournalism and Public Relations -- that share a common core of eight courses. It is designed to prepare students for careers in media communications, journalism and photojournalism in both print and web-based media. Students must successfully complete the requirements for one or more of the three concentrations in addition to the core Communications & Community Media curriculum..

### **Learning Outcomes**

1. Students will understand and apply best practices in community journalism, public relations and photojournalism.
2. Students will understand and apply ethical principles to their communications work.
3. Students will gain competency in a variety of media platforms applicable to both print and web.
4. Students will achieve proficiency in journalistic processes, including interviewing techniques, research, story structure, AP style and writing concisely, clearly and accurately,
5. Students will understand the strengths and limitations of social media and apply that knowledge professionally.
6. Students will learn to work under the pressure of constant deadlines.
7. Students will understand current mass media theories as they apply to their concentration.

### **Communications & Community Media Core Curriculum (24 credits)**

- ART-2110 Introduction to Digital Media 3 credits
- ART-4025 Advanced Digital Media: Documentary & Social Media 3 credits
- CIS-2220 Website Design 3 credits
- ENG-2051 Introduction to Newswriting 3 credits
- ENG-2052 Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-3020 Feature Writing 3 credits
- ENG-4010 Issues in Journalism 3 credits
- SOC-3130 Mass Media & Society 3 credits

### **Print & Web Community Journalism Concentration**

## Required Concentration Courses (24 credits)

- ENG-3022 Advanced Newspaper Publishing: Writing, Editing, Layout & Design 3 credits (take at least two times for a total of 6 credits)
- ENG-4130 The Form & Theory of Nonfiction 3 credits
- ENG-4160 Investigative Journalism 3 credits
  
- HIS-1212 American History II 3 credits **OR**
- POS-1020 American Politics & Government 3 credits
  
- ENG-4810 Internship 1-12 credits (3 credits required)

## Choose 2 of the following:

- ENG-2171 World Literature I 3 credits
- ENG-2172 World Literature II 3 credits
- ENG-2281 Survey of English Literature I 3 credits
- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENG-2321 Survey of American Literature I 3 credits
- ENG-2322 Survey of American Literature II 3 credits
- ENG-2510 Women & Literature 3 credits

Total: 48 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Communications & Community Media (B.A.): Public Relations concentration**

The Public Relations concentration in the B.A. in Communications & Community Media provides students with a comprehensive understanding of public relations practices in contemporary society as they apply to corporate, business, government, political and nonprofit organizations. Students learn to shape and communicate organizational messages through a variety of media strategies and platforms. Students also learn principles of marketing, management, mass communications, advertising and macroeconomics as well as an understanding of best ethical practices. **Students graduate with a B.A. in Communications & Community Media with a concentration in Public Relations.**

## Communications & Community Media Programs at JSC

This interdisciplinary program consists of three concentrations -- Print and Web Community Journalism, Photojournalism and Public Relations -- that share a common core of eight courses. It is designed to prepare students for careers in media communications, journalism and photojournalism in both print and web-based media. Students must successfully complete the requirements for one or more of the three concentrations in addition to the core Communications & Community Media curriculum..

## Learning Outcomes

1. Students will understand and apply best practices in community journalism, public relations and photojournalism.
2. Students will understand and apply ethical principles to their communications work.
3. Students will gain competency in a variety of media platforms applicable to both print and web.
4. Students will achieve proficiency in journalistic processes, including interviewing techniques, research, story structure, AP style and writing concisely, clearly and accurately,
5. Students will understand the strengths and limitations of social media and apply that knowledge professionally.
6. Students will learn to work under the pressure of constant deadlines.
7. Students will understand current mass media theories as they apply to their concentration.

## Communications & Community Media Core Curriculum (24 credits)

- ART-2110 Introduction to Digital Media 3 credits
- ART-4025 Advanced Digital Media: Documentary & Social Media 3 credits
- CIS-2220 Website Design 3 credits
- ENG-2051 Introduction to Newswriting 3 credits
- ENG-2052 Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-3020 Feature Writing 3 credits
- ENG-4010 Issues in Journalism 3 credits
- SOC-3130 Mass Media & Society 3 credits

## Public Relations Concentration

### Required Concentration Courses (24 credits)

- BUS-1340 Social Entrepreneurship 3 credits
- ECO-2020 Macroeconomics 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-3070 Public Relations 3 credits
- BUS-3210 Advertising 3 credits
- BUS-3370 Professional Communication 3 credits
- BUS-4810 Internship in Business Management 1-12 credits (6 credits) (minimum of 240 hours)

Total: 48 credits

Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Creative Writing (B.F.A.)**

In this program, aspiring writers learn the craft of fiction, poetry and prose nonfiction in literature courses and in writing workshops. Small classes and individualized instruction are key features of this student-centered program. A student and professional reading series and internships with the department's nationally recognized literary magazine, *Green Mountains Review*, complement the academic course work.

## **Learning Outcomes for Creative Writing Majors**

The B.F.A. in creative writing will:

1. Enable students to produce their own poetry, fiction and creative nonfiction and to become proficient readers and interpreters of imaginative literature;
2. Enable students to identify the major genres of literature, to recognize the features of each genre and to explore and evaluate different approaches to literary criticism and interpretation;
3. Develop students' abilities to analyze and explicate literary texts so that they can identify themes and ideas as well as recognize how formal literary devices affect meaning; and
4. Develop students' skills in editing and revising so that they will be prepared for graduate school in creative writing and/or for careers in publishing.

## **Required Courses**

### **Core Courses**

- ENG-1310 Introduction to Literature 3 credits
- ENG-2031 Editing & Publishing: The Literary Magazine 3 credits
- ENG-3032 Advanced Editing & Publishing: The Literary Magazine 3 credits

### **Writing Workshops Part I**

- ENG-2101 Creative Writing 3 credits

### **Writing Workshops Part II (Take 3 courses)**

Complete 9 credits from at least two different genres; students may repeat one genre.

- ENG-3120 Poetry Workshop 3 credits
- ENG-3130 Fiction Workshop 3 credits
- ENG-3140 The Creative Essay 3 credits

### **Lower-level Literature Survey Courses (Take 3 courses)**

- ENG-2171 World Literature I 3 credits
- ENG-2172 World Literature II 3 credits
- ENG-2281 Survey of English Literature I 3 credits
- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENG-2321 Survey of American Literature I 3 credits
- ENG-2322 Survey of American Literature II 3 credits
- ENG-2510 Women & Literature 3 credits

### Upper-level Literature Survey Courses (Take 3 courses)

- ENG-3270 Myth & Myth Making 3 credits
- ENG-3320 The English Novel 3 credits
- ENG-3345 Contemporary Canadian Literature 3 credits
- ENG-3380 British Romantic Literature 3 credits
- ENG-3390 Literature of the Grotesque 3 credits
- ENG-3395 Satire in Literature 3 credits
- ENG-3405 Literary Journalism 3 credits
- ENG-3435 Practical Grammar 3 credits
- ENG-3480 Modern Literature 3 credits
- ENG-3510 Contemporary Literature 3 credits
- ENG-3520 American Poetry 3 credits
- ENG-3525 Victorian Literature 3 credits
- ENG-3530 The American Novel 3 credits
- ENG-3565 Shakespeare 3 credits
- ENG-3580 African American Literature 3 credits
- ENG-3680 Linguistics & Language History 3 credits
- ENG-4510 Literary Research Tutorial 3 credits
- ENG-4720 Seminar in Literature 3 credits

### Upper-level Coursework (Take 2 courses)

- ENG-4110 The Form & Theory of Fiction 3 credits
- ENG-4120 The Form & Theory of Poetry 3 credits
- ENG-4130 The Form & Theory of Nonfiction 3 credits
- ENG-4150 Literary Criticism & Theory 3 credits

### Thesis

- ENG-4920 Senior Thesis 3 credits  
(creative project in genre of specialization)

Total: 48 credits

## Secondary Teaching License in English

Students pursuing licensure endorsement to teach English in grades 7-12 must successfully complete either the B.A. in English or the B.F.A. in Creative Writing as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## English (B.A.)

Students in this program explore literature and language from critical, aesthetic, historical, linguistic and national perspectives. Opportunities to study creative writing and journalism are also components of the program.

## Learning Outcomes for English Majors

The B.A. in English will:

1. Enable students to identify the major genres of literature, to recognize the features of each genre and to explore and evaluate different approaches to literary criticism and interpretation.
2. Introduce students to English, American and world literary traditions so that they will learn how literature both reflects and shapes intellectual, aesthetic and cultural life.
3. Develop students' abilities to analyze and explicate literary texts so that they can identify themes and ideas and learn how formal literary devices affect meaning.
4. Prepare students for graduate study, for teaching secondary school English and for careers in the private sector or in government that require critical thinking and reading skills as well as skills in research and discourse analysis.

## Required Courses

### Introductory Core Courses

- ENG-1310 Introduction to Literature 3 credits

### Introductory Survey Courses (choose 3 courses)

- ENG-2171 World Literature I 3 credits
- ENG-2172 World Literature II 3 credits
- ENG-2281 Survey of English Literature I 3 credits
- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENG-2321 Survey of American Literature I 3 credits
- ENG-2322 Survey of American Literature II 3 credits

- ENG-2510 Women & Literature 3 credits

## Writing Courses (choose 2 courses)

- ENG-2051 Introduction to Newswriting 3 credits
- ENG-2052 Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-2101 Creative Writing 3 credits
- ENG-3020 Feature Writing 3 credits
- ENG-3022 Advanced Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-3120 Poetry Workshop 3 credits
- ENG-3130 Fiction Workshop 3 credits
- ENG-3140 The Creative Essay 3 credits

## Upper-level Specialty Courses in Literature, Language and Criticism

- ENG-3565 Shakespeare 3 credits
- ENG-4150 Literary Criticism & Theory 3 credits
- ENG-4510 Literary Research Tutorial 3 credits

## Additional Upper-level Specialty Courses in Literature, Language & Criticism (choose 4 courses)

- ENG-3270 Myth & Myth Making 3 credits
- ENG-3320 The English Novel 3 credits
- ENG-3345 Contemporary Canadian Literature 3 credits
- ENG-3380 British Romantic Literature 3 credits
- ENG-3390 Literature of the Grotesque 3 credits
- ENG-3395 Satire in Literature 3 credits
- ENG-3435 Practical Grammar 3 credits
- ENG-3480 Modern Literature 3 credits
- ENG-3510 Contemporary Literature 3 credits
- ENG-3520 American Poetry 3 credits
- ENG-3525 Victorian Literature 3 credits
- ENG-3530 The American Novel 3 credits
- ENG-3580 African American Literature 3 credits
- ENG-3680 Linguistics & Language History 3 credits
- ENG-4720 Seminar in Literature 3 credits

## Optional Thesis

- ENG-4920 Senior Thesis 3 credits

Total: 39 credits (42 with thesis)

## Secondary Teaching License in English

Students pursuing licensure endorsement to teach English in grades 7-12 must successfully complete either the B.A. in English or the B.F.A. in Creative Writing as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Environmental Science (B.S.): Environmental Analysis & Assessment concentration

This research-based concentration of the B.S. in Environmental Science focuses more heavily on laboratory and field courses and prepares students for more technically orientated positions in the environmental field and for graduate programs in the sciences. Students conduct research in the field and in the laboratory and have the opportunity to present with faculty mentors at science events and professional conferences. **Students graduate with a B.S. in Environmental Science with a concentration in Environmental Analysis & Assessment.**

## Learning Outcomes

The B.S. in Environmental Science concentrating in Environmental Analysis & Assessment seeks to produce graduates who can:

- Critically read, evaluate and synthesize information from relevant geological, biological and chemical literature related to environmental problems.
- Work individually and with others, to identify and evaluate environmental problems.
- Apply appropriate tools, analytical equipment and concepts from mathematics, physics, chemistry, geology and biology, including the use of computer software, to evaluate environmental problems.
- Observe and measure in the field and laboratory, the organic, inorganic and physical aspects of environmental problems while applying the methods of science.
- Design a research project to test hypotheses and draw conclusions based on knowledge of the science.
- Articulate, in oral, written and graphical form, assessments of environmental problems.

## Environmental Science Programs at JSC

Environmental science is an interdisciplinary field that provides an integrative and quantitative approach to the exploration of the biological, physical and societal aspects that govern the natural environment. The science faculty conduct research and provide instruction in ecology, meteorology, biology, chemistry, physics and geoscience. Lectures, laboratory work, fieldwork, internships and faculty-mentored student research prepare students for careers in private businesses, nonprofit organizations and government as well as graduate study. The fundamentals of science frame discussions of public policy and social action. All students are strongly encouraged to complete an internship in their area of interest. Graduates who successfully complete the

required education courses for secondary licensure in addition to degree requirements become candidates for a license to teach science in grades 7-12.

Students in this major must complete the Environmental Sciences Core Curriculum as well as the requirements for one of the two concentrations: Environmental Analysis & Assessment or Environmental Policy & Advocacy.

## Environmental Science Core Courses (29 credits)

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits
- BIO-2340 Fundamentals of Ecology 4 credits
- CHE-1031 General Chemistry I 4 credits
- CHE-1032 General Chemistry II 4 credits
- ENV-1050 Introduction to Earth Science 4 credits
- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2210 Current Topics in Science 1 credits (1 of 2)  
ENV-2210 Current Topics in Science 1 credit (2 of 2)

## Environmental Analysis & Assessment Concentration

### Required Concentration Courses (15 credits)

- ENV-3310 Applications in GIS 4 credits
- ENV-4720 Senior Thesis 3 credits **OR**
- ENV-4810 Internship in Environmental Science 1-12 credits (3 credits)
- GEY-3120 Field Geology 4 credits
- PHY-1041 Physics I 4 credits

### Electives (choose 3 of the following):

- BIO-3280 Environmental Toxicology 4 credits
- CHE-3111 Organic Chemistry I 4 credits
- CHE-3112 Organic Chemistry II 4 credits
- ENV-2910 Independent Study in Environmental Science 1-12 credits (3 credits) **OR**
- ENV-4910 Independent Study in Environmental Science 1-12 credits (3 credits)
- ENV-3130 Environmental Geology 4 credits
- ENV-3240 Fundamentals of Soil Science 4 credits
- ENV-3250 Meteorology & Climatology 4 credits
- ENV-3260 Global Climate Change 3 credits
- ENV-3400 Advanced GIS: Spatial Modeling 4 credits
- GEY-3110 Hydrogeology 4 credits

- PHY-1042 Physics II 4 credits

Total: 54-56 credits

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Environmental Science (B.S.): Environmental Policy & Advocacy concentration

The Environmental Policy & Advocacy concentration of the B.S. in Environmental Science is designed to create tomorrow's leaders in the development of public policy and the management of natural resources. Through coursework, research and a recommended internship, students develop analytical skills and explore current topics in energy, ecology, climatology, water resources and more. **Students graduate with a B.S. in Environmental Science with a concentration in Environmental Policy & Advocacy.**

## Learning Outcomes

The B.S. in Environmental Science concentrating in Environmental Analysis & Assessment seeks to produce graduates who can:

- Critically read, evaluate and synthesize information from relevant geological, biological and chemical literature related to environmental problems.
- Work individually and with others, to identify and evaluate environmental problems.
- Apply appropriate tools, analytical equipment and concepts from mathematics, physics, chemistry, geology and biology, including the use of computer software, to evaluate environmental problems.
- Observe and measure, in the field and laboratory, the organic, inorganic and physical aspects of environmental problems while applying the methods of science.
- Design a research project to test hypotheses and draw conclusions based on science knowledge.
- Articulate in oral, written and graphical form assessments of environmental problems.

## Environmental Science Programs at JSC

Environmental science is an interdisciplinary field that provides an integrative and quantitative approach to the exploration of the biological, physical and societal aspects that govern the natural environment. The science faculty conduct research and provide instruction in ecology, meteorology, biology, chemistry, physics and geoscience. Lectures, laboratory work, fieldwork,

internships and faculty-mentored student research prepare students for careers in private businesses, nonprofit organizations and government as well as graduate study. The fundamentals of science frame discussions of public policy and social action. All students are strongly encouraged to complete an internship in their area of interest. Graduates who successfully complete the required education courses for secondary licensure in addition to degree requirements become candidates for a license to teach science in grades 7-12.

Students in this major must complete the Environmental Sciences Core Curriculum as well as the requirements for one of the two concentrations: Environmental Analysis & Assessment or Environmental Policy & Advocacy.

## Environmental Science Core Courses (29 credits)

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits
- BIO-2340 Fundamentals of Ecology 4 credits
- CHE-1031 General Chemistry I 4 credits
- CHE-1032 General Chemistry II 4 credits
- ENV-1050 Introduction to Earth Science 4 credits
- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2210 Current Topics in Science 1 credits (1 of 2)  
ENV-2210 Current Topics in Science 1 credit (2 of 2)

## Environmental Policy & Advocacy Concentration

### Required Concentration Courses (22 credits)

- ECO-2020 Macroeconomics 3 credits
- ENV-3030 Water Resources 3 credits
- ENV-3040 Energy & Mineral Resources 3 credits
- ENV-3250 Meteorology & Climatology 4 credits
  
- ENV-4730 Senior Seminar 3 credits **OR**
- ENV-4720 Senior Thesis 3 credits
  
- POS-1020 American Politics & Government 3 credits **OR**
- POS-1010 Introduction to Political Science 3 credits
  
- POS-3050 Environmental Ethics & Politics 3 credits

### Electives (choose 2 of the following):

- ENV-2910 Independent Study in Environmental Science 1-12 credits (3 credits) **OR**
- ENV-4910 Independent Study in Environmental Science 1-12 credits (3 credits)
  
- ENV-3010 Land Use Planning 3 credits
- ENV-3020 Environmental Law 3 credits

- ENV-3130 Environmental Geology 4 credits
- ENV-3150 Toxic & Solid Waste Management 3 credits
- ENV-3230 National Parks & Wilderness Management 3 credits
- ENV-3260 Global Climate Change 3 credits
- ENV-3310 Applications in GIS 4 credits
- ENV-3400 Advanced GIS: Spatial Modeling 4 credits
- ENV-4810 Internship in Environmental Science 1-12 credits (3 credits)
- GEY-3120 Field Geology 4 credits

Total: 57-59 credits

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Fine Woodworking and Furniture Design (A.A.)

### Fine Woodworking and Furniture Design Programs

Students enrolled in Johnson's new Bachelor of Fine Arts or Associate of Arts in Fine Woodworking and Furniture Design take most of the courses in the major at the Vermont Woodworking School (VWS) in their 15,000 square foot, historic barn turned modern woodworking facility. The Vermont Woodworking School is located in Cambridge, about 20 minutes away from the Johnson campus, complete with state-of-the-art bench rooms, mill shops, a finish room, a 12-seat computer lab, a photo studio, common areas and galleries. Johnson students study in the same classes and with the same faculty as VWS's Immersion students. They are assigned a bench at the Vermont Woodworking School and participate in an average of 6 to 9 credits of their full 15-credit course load each semester. The remainder of their courses are completed at the Johnson campus.

Graduates of the A.A. and B.F.A. in Fine Woodworking and Furniture Design are prepared to go on to careers in the wood products industry including working for wood products manufacturers, small wood businesses, making and/or designing furniture, or in other fabrication industries. Both the A.A. and the B.F.A. equip students with skills using SolidWorks, CAD program, preparing graduates for design jobs in the wood industry and beyond. Graduates also go on to start their own furniture businesses.

Learning Outcomes for A.A. and B.F.A. Fine Woodworking and Furniture Design Majors:

1. Articulate informed and ideologically sound ideas about art, both historic and contemporary, and connect those ideas to the wider world.

2. Produce creative artwork that is technically proficient and imbued with meaningful content.
3. Demonstrate a general understanding, ability, and resourcefulness with a wide range of art media, as well as a deeper understanding of at least one medium such as drawing, painting, sculpture, photography, digital media, or art history.
4. Have an openness to ideas other than their own and a willingness to take risks with their own work.
5. Have established regular studio practice, which will hopefully be lifelong, be aware of developing issues in their own work, and know how to continue on their own in the pursuit of that vision, with strategies for maintaining self-awareness.
6. Be familiar with the professional art world, from the perspective of career options, including exhibition venues, graduate schools, and grant opportunities.
7. Assemble a professional portfolio.
8. Understand the mechanics of setting up a safe and functioning studio.
9. Know how to do a professional exhibition of their art, write about their art, and speak about their art at a public event.

## Required Core Courses

- WFD-1010 Foundations of Furniture Design I 9 credits
- WFD-1020 Design Studio I: Small Tables 6 credits
- WFD-2010 Foundations of Furniture Design II 9 credits
- WFD-2020 Design Studio II: Casework Construction 6 credits

## Advanced Studio Courses

Students must take 6 credits of 3000/4000-level advanced JSC studio courses.

**Total: 36 credits**

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Fine Woodworking and Furniture Design (B.F.A.)**

### Fine Woodworking and Furniture Design Programs

Students enrolled in Johnson's new Bachelor of Fine Arts or Associate of Arts in Fine Woodworking and Furniture Design take most of the courses in the major at the Vermont Woodworking School (VWS) in their 15,000 square foot, historic barn turned modern woodworking facility. The Vermont Woodworking School is located in Cambridge, about 20 minutes away from the Johnson campus, complete with state-of-the-art bench rooms, mill shops, a finish room, a 12-seat computer lab, a photo studio, common areas and galleries. Johnson students study in the same classes and with the same faculty as VWS's Immersion students. They are assigned a bench at the Vermont Woodworking School and participate in an average of 6 to 9 credits of their full 15-credit course load each semester. The remainder of their courses are completed at the Johnson campus.

Graduates of the A.A. and B.F.A. in Fine Woodworking and Furniture Design are prepared to go on to careers in the wood products industry including working for wood products manufacturers, small wood businesses, making and/or designing

furniture, or in other fabrication industries. Both the A.A. and the B.F.A. equip students with skills using SolidWorks, CAD program, preparing graduates for design jobs in the wood industry and beyond. Graduates also go on to start their own furniture businesses.

Learning Outcomes for A.A. and B.F.A. Fine Woodworking and Furniture Design Majors:

1. Articulate informed and ideologically sound ideas about art, both historic and contemporary, and connect those ideas to the wider world.
2. Produce creative artwork that is technically proficient and imbued with meaningful content.
3. Demonstrate a general understanding, ability, and resourcefulness with a wide range of art media, as well as a deeper understanding of at least one medium such as drawing, painting, sculpture, photography, digital media, or art history.
4. Have an openness to ideas other than their own and a willingness to take risks with their own work.
5. Have established regular studio practice, which will hopefully be lifelong, be aware of developing issues in their own work, and know how to continue on their own in the pursuit of that vision, with strategies for maintaining self-awareness.
6. Be familiar with the professional art world, from the perspective of career options, including exhibition venues, graduate schools, and grant opportunities.
7. Assemble a professional portfolio.
8. Understand the mechanics of setting up a safe and functioning studio.
9. Know how to do a professional exhibition of their art, write about their art, and speak about their art at a public event.

## Required Core Courses (63 credits)

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-1140 Design I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits
- WFD-1010 Foundations of Furniture Design I 9 credits
- WFD-1020 Design Studio I: Small Tables 6 credits
- WFD-2010 Foundations of Furniture Design II 9 credits
- WFD-2020 Design Studio II: Casework Construction 6 credits
- WFD-2030 Business Practice and Marketing for Artisans 3 credits
- WFD-3010 Thinking and Achieving Through Craft 3 credits
- WFD-3020 Design Studio III: Chairs 6 credits

## Advanced Studio Courses

Students must complete 6 credits of 3000/4000-level advanced studio electives at the Johnson campus.

## Advanced Art History Courses

Students must complete 3 credits of 3000/4000-level advanced art history electives at the Johnson campus.

## Senior Capstone Courses

Students will be required to complete 6 credits in a Senior Furniture Design course currently under development, as well as the following courses:

- ART-4120 B.F.A. Project & Exhibit 3 credits
- ARH-4720 Seminar in Contemporary Art Issues 3 credits

**Total Credits: 84**

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## General Studies (A.A.)

This two-year program exposes students to a range of disciplines and provides a sound educational base for future studies at the bachelor's or professional level.

## Required Courses

Sixty credits are needed for the degree. Students in the Associate of Arts (A.A.) in General Studies program must complete a First-Year Seminar Course, Creative Audience, all of the Foundational Skills components of the General Education Curriculum (GEC) and six credits each from the Aesthetic, Global, and Social & Historical Perspectives of the GEC. The remaining credits are electives chosen from 1000- and 2000-level courses in consultation with an advisor.

## Health Sciences (B.S.): Health & Exercise Science concentration

Students in this program study the human body and learn how exercise, nutrition and psychosocial health behaviors influence health and wellness. Through coursework, research and a required internship, students study the sciences related to movement, exercise and contemporary health issues, and they assess and design programs to address risk factors, health and fitness in different populations. **Graduates earn a B.S. in Health Sciences with a concentration in Health & Exercise Science.** Graduates who successfully complete the education curriculum for secondary licensure become candidates for a license to teach science in grades 7-12.

In addition to the learning outcomes for all Health Sciences majors noted below, there are two additional outcomes for students in this concentration:

- Students will possess the knowledge and skills necessary for careers in clinical/medical settings, personal training, strength and conditioning, corporate health/wellness, community health education and health/wellness consulting.
- Students will be well-prepared for graduate programs in kinesiology, exercise science, public health, athletic training and related disciplines.

## Health Sciences Programs at JSC

Students majoring in Health Sciences at JSC choose one of three concentrations: Health & Exercise Science, Physical Education with or without licensure, and Pre-Physical Therapy. Students graduate with a B.S. in Health Sciences with a

concentration in one of these specialties. Graduates who successfully complete the appropriate education curriculum also become candidates for a license to teach science (grades 7-12) or physical education (grades PreK-12).

The major is designed for students wishing to pursue careers in health, fitness, physical education and the allied health fields. It trains students in the basic sciences, including biology, chemistry, anatomy and physiology; assessment of health status; the disease process; health and fitness; and cardiac and pulmonary assessment and rehabilitation. Graduates are prepared for a variety of career options as well as graduate study (which is required for students pursuing careers as physical therapists, chiropractics, physician assistants and similar fields). In addition, with the current increases in lifestyle-related disease and the growing elderly population, graduates will be poised to take advantage of new prospects in the health field.

## Learning Outcomes

In addition to the outcomes identified within each concentration, the B.S. in Health Sciences seeks to produce graduates who:

- Demonstrate through both speaking and writing an understanding of biological, physical and social sciences related to human movement, sport exercise and contemporary health issues.
- Identify and describe challenges to the natural homeostasis of the body and mind and how they respond to these challenges.
- Apply knowledge related to physical activity, nutrition and other lifestyle behaviors to prevent and control diseases in diverse populations.
- Use both qualitative and quantitative methods to appraise risk factors, health status, fitness and physical skills, and then design safe and effective programs to target these factors in healthy and diseased populations.
- Possess in-depth understanding of the scientific methods and the ability to accurately interpret and apply scientific findings related to the human body, health and disease.
- Demonstrate an ability to apply theoretical knowledge, research skills, use of technology and professionally appropriate and ethical behaviors in workplace settings.

## Health Sciences Core Curriculum (24 credits)

- AHS-1010 Contemporary Health Issues 3 credits
- AHS-3120 Kinesiology 3 credits
- AHS-3230 Physiology of Exercise 4 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- BIO-2011 Human Anatomy & Physiology I 4 credits
- BIO-2012 Human Anatomy & Physiology II 4 credits
- PSY-1010 Introduction to Psychology 3 credits

## Health & Exercise Science Concentration

### Required Concentration Courses (26 credits)

- AHS-1340 First Aid and CPR 1 credits
- AHS-2080 Health Sciences Seminar 1 credits
- AHS-2130 Strength & Conditioning 3 credits
- AHS-4060 Cardiopulmonary Assessment, Rehabilitation & Training 4 credits
- AHS-4110 Psychophysiology of Stress 3 credits

- AHS-4810 Internship in Allied Health Science 1-12 credits (3 credits) **OR**
  - AHS-4911 Senior Research 3 credits
  - BIO-1210 Introduction to Biology 4 credits \* **OR**
  - BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits \*
  - BIO-3180 Nutrition 3 credits
  - CHE-1031 General Chemistry I 4 credits \*
  - ENV-2210 Current Topics in Science 1 credits
- \*Fulfills Foundational Skills- Natural Science portion of General Education Curriculum.*

### Electives (take 6 to 8 credits):

- AHS-1080 Lifetime Fitness 1 credits
- AHS-3043 Care & Prevention of Athletic Injuries 4 credits
- AHS-3050 Introduction to Pharmacology 3 credits
- AHS-4025 Health Behavior: Change & Adherence 3 credits
- BIO-3125 Biological Chemistry 4 credits (offered every 3 years)
- BIO-3130 Cellular Biology: A Molecular Approach 4 credits (offered every 3 years)
- BIO-3140 Microbiology 4 credits (offered every 3 years)
- CHE-1032 General Chemistry II 4 credits
- CHE-3111 Organic Chemistry I 4 credits
- PHY-1041 Physics I 4 credits \*
- PHY-1042 Physics II 4 credits
- PSY-2070 Developmental Psychology 3 credits
- PSY-3065 Abnormal Behavior 3 credits

\*Fulfills GEC-FD-NS

Total: 57-59 credits

### Medical School Admission Requirements

Students who intend to apply to medical school after completing their B.S. in Health Sciences at JSC should take these standard prerequisite courses as well:

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits
- CHE-1031 General Chemistry I 4 credits
- CHE-1032 General Chemistry II 4 credits
- CHE-3111 Organic Chemistry I 4 credits
- CHE-3112 Organic Chemistry II 4 credits
- PHY-1041 Physics I 4 credits
- PHY-1042 Physics II 4 credits

*Some medical schools also require or recommend the following:*

- BIO-3125 Biological Chemistry 4 credits
- BIO-3220 Genetics 4 credits
- MAT-1531 Calculus I 4 credits

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Health Sciences (B.S.): Physical Education concentration

The Physical Education concentration in the B.S. in Health Sciences is a rigorous program that provides a strong foundation in the health sciences and meets or exceeds all national standards for PE teachers. An internship and/or field placements are required. Students have the option of earning the degree without teaching endorsement, in which case they can pursue career opportunities in physical activity and recreation programs, including fitness centers and corporate wellness programs. **Graduates earn a B.S. in Health Sciences with a concentration in Physical Education.** Graduates who successfully complete the education curriculum for the unified arts become candidates for a license to teach physical education in grades PreK-12.

In addition to the learning outcomes for all Health Sciences majors (see below), there are two additional outcomes for students in this concentration:

- Graduates will have the knowledge and skills to develop and deliver standards-based curriculum units and lessons for PreK-12 physical education, as well as assess and evaluate student learning, instruction and the curriculum itself.
- Graduates will have the knowledge and skills to establish an effective learning environment that is engaging, inclusive and recognizes cultural and learning diversity.

## Health Sciences Programs at JSC

Students majoring in Health Sciences at JSC choose one of three concentrations: Health & Exercise Science, Physical Education with or without licensure, and Pre-Physical Therapy. Students graduate with a B.S. in Health Sciences with a concentration in one of these specialties. Graduates who successfully complete the appropriate education curriculum also become candidates for a license to teach science (grades 7-12) or physical education (grades PreK-12).

The major is designed for students wishing to pursue careers in health, fitness, physical education and the allied health fields. It trains students in the basic sciences, including biology, chemistry, anatomy and physiology; assessment of health status; the disease process; health and fitness; and cardiac and pulmonary assessment and rehabilitation. Graduates are prepared for a variety of career options as well as graduate study (which is required for students pursuing careers as physical therapists, chiropractics, physician assistants and similar fields). In addition, with the current increases in lifestyle-related disease and the growing elderly population, graduates will be poised to take advantage of new prospects in the health field.

# Learning Outcomes

In addition to the outcomes identified within each concentration, the B.S. in Health Sciences seeks to produce graduates who:

- Demonstrate through both speaking and writing an understanding of biological, physical and social sciences related to human movement, sport exercise and contemporary health issues.
- Identify and describe challenges to the natural homeostasis of the body and mind and how they respond to these challenges.
- Apply knowledge related to physical activity, nutrition and other lifestyle behaviors to prevent and control diseases in diverse populations.
- Use both qualitative and quantitative methods to appraise risk factors, health status, fitness and physical skills, and then design safe and effective programs to target these factors in healthy and diseased populations.
- Possess in-depth understanding of the scientific methods and the ability to accurately interpret and apply scientific findings related to the human body, health and disease.
- Demonstrate an ability to apply theoretical knowledge, research skills, use of technology and professionally appropriate and ethical behaviors in workplace settings.

## Health Sciences Core Curriculum (24 credits)

- AHS-1010 Contemporary Health Issues 3 credits
- AHS-3120 Kinesiology 3 credits
- AHS-3230 Physiology of Exercise 4 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- BIO-2011 Human Anatomy & Physiology I 4 credits
- BIO-2012 Human Anatomy & Physiology II 4 credits
- PSY-1010 Introduction to Psychology 3 credits

## Physical Education Concentration

### Required Concentration Courses (19 credits)

- AHS-1340 First Aid and CPR 1 credits
- AHS-2130 Strength & Conditioning 3 credits
- DAN-1010 Fundamentals of Dance 3 credits
- OER-2140 Ropes Course Leadership 2 credits
- PED-1150 Foundations of Physical Education 3 credits
- PED-2040 Team Sports 2 credits
- PED-2110 Individual, Dual & Lifetime Activities 2 credits
- PED-3120 Measurement & Evaluation 3 credits

### Electives (choose 1 of the following):

- AHS-3043 Care & Prevention of Athletic Injuries 4 credits
- AHS-4025 Health Behavior: Change & Adherence 3 credits

- AHS-4110 Psychophysiology of Stress 3 credits
- BIO-3180 Nutrition 3 credits
- OER-3010 Learning in the Outdoors 4 credits

## Physical Education Teaching Endorsement (44 credits)

Students pursuing teacher licensure in physical education must complete all preceding requirements plus the following:

- PED-3070 Methods of Teaching Elementary Physical Education 4 credits
- PED-3140 Methods of Teaching Secondary School Physical Education 4 credits
- EDU-TEW1 Teacher Education Workshop 1: Introduction to Teacher Education 0 credits
- EDU-TEW2 Teacher Education Workshop 2: Application for Practicum I 0 credits
- EDU-TEW3 Teacher Education Workshop 3: Application for Practicum II 0 credits
- EDU-TEW4 Teacher Education Workshop 4: Application for student teaching 0 credits
- EDU-TEW5 Teacher Education Workshop 5: Application for a Verification Check 0 credits
- EDU-2360 Perspectives on Learning in a Diverse Society 3 credits
- EDU-2365 The Ecology of Human Experience: Development, Culture & Identity 3 credits
- EDU-2370 The Contemporary School 3 credits
- EDU-3112 Instructional Dynamics for the Elementary Educator: Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Learners; Part III: Unified Arts for Diverse Learners 3 credits
- EDU-3311 Foundations of Inclusive Practices 3 credits
- EDU-3440 Teaching Toward Democracy 3 credits
- EDU-4310 The Art of Experience in Education: Designing for Engagement & Accomplishment through the Unified Arts 3 credits
- EDU-4650 Capstone & Thesis Seminar 3 credits
- EDU-4812 Unified Arts Student Teaching 12 credits

Total: 90-91 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Health Sciences (B.S.): Pre-Physical Therapy concentration

Pre-Physical Therapy is a rigorous, science-packed concentration that prepares graduates for admission to doctorate of physical therapy (D.P.T.) programs and paves the way for chiropractic and physician-assistant graduate study. Courses include chemistry, physics, anatomy, physiology, biology, psychology and statistics. An internship under the supervision of a physical therapist, chiropractor or physician assistant is required. **Graduates earn a B.S. in Health Sciences with a concentration in Pre-Physical Therapy.** Graduates who successfully complete the education curriculum for secondary licensure become candidates for a license to teach science in grades 7-12.

In addition to the learning outcomes for all Health Sciences majors (see below), there is an additional outcome for students in this concentration:

- Students will have the knowledge and skills for entry into graduate programs in physical therapy, chiropractic medicine, physician's assistant and related allied health disciplines.

## Health Sciences Programs at JSC

Students majoring in Health Sciences at JSC choose one of three concentrations: Health & Exercise Science, Physical Education with or without licensure, and Pre-Physical Therapy. Students graduate with a B.S. in Health Sciences with a concentration in one of these specialties. Graduates who successfully complete the appropriate education curriculum also become candidates for a license to teach science (grades 7-12) or physical education (grades PreK-12).

The major is designed for students wishing to pursue careers in health, fitness, physical education and the allied health fields. It trains students in the basic sciences, including biology, chemistry, anatomy and physiology; assessment of health status; the disease process; health and fitness; and cardiac and pulmonary assessment and rehabilitation. Graduates are prepared for a variety of career options as well as graduate study (which is required for students pursuing careers as physical therapists, chiropractics, physician assistants and similar fields). In addition, with the current increases in lifestyle-related disease and the growing elderly population, graduates will be poised to take advantage of new prospects in the health field.

## Learning Outcomes

In addition to the outcomes identified within each concentration, the B.S. in Health Sciences seeks to produce graduates who:

- Demonstrate through both speaking and writing an understanding of biological, physical and social sciences related to human movement, sport exercise and contemporary health issues.
- Identify and describe challenges to the natural homeostasis of the body and mind and how they respond to these challenges.
- Apply knowledge related to physical activity, nutrition and other lifestyle behaviors to prevent and control diseases in diverse populations.
- Use both qualitative and quantitative methods to appraise risk factors, health status, fitness and physical skills, and then design safe and effective programs to target these factors in healthy and diseased populations.
- Possess in-depth understanding of the scientific methods and the ability to accurately interpret and apply scientific findings related to the human body, health and disease.
- Demonstrate an ability to apply theoretical knowledge, research skills, use of technology and professionally appropriate and ethical behaviors in workplace settings.

## Health Sciences Core Curriculum (24 credits)

- AHS-1010 Contemporary Health Issues 3 credits
- AHS-3120 Kinesiology 3 credits
- AHS-3230 Physiology of Exercise 4 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- BIO-2011 Human Anatomy & Physiology I 4 credits
- BIO-2012 Human Anatomy & Physiology II 4 credits
- PSY-1010 Introduction to Psychology 3 credits

## Pre-Physical Therapy Concentration

## Required Concentration Courses (34 credits)

- AHS-2080 Health Sciences Seminar 1 credits
- AHS-4060 Cardiopulmonary Assessment, Rehabilitation & Training 4 credits
  
- AHS-4810 Internship in Allied Health Science 1-12 credits (3 credits) **OR**
- AHS-4911 Senior Research 3 credits
  
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits \*
- CHE-1031 General Chemistry I 4 credits \*
- CHE-1032 General Chemistry II 4 credits
- ENV-2210 Current Topics in Science 1 credits
- MAT-2030 Probability & Statistics 3 credits \*
- PHY-1041 Physics I 4 credits \*
- PHY-1042 Physics II 4 credits

*\*Fulfills GEC-FD-NS*

## Electives (choose 6-8 credits):

*Note:* At least 3 credits must be either an AHS-designated course or BIO 3180.

- AHS-2130 Strength & Conditioning 3 credits
- AHS-3043 Care & Prevention of Athletic Injuries 4 credits
- AHS-3050 Introduction to Pharmacology 3 credits
- AHS-4025 Health Behavior: Change & Adherence 3 credits
- AHS-4110 Psychophysiology of Stress 3 credits
- BIO-3125 Biological Chemistry 4 credits
- BIO-3130 Cellular Biology: A Molecular Approach 4 credits
- BIO-3140 Microbiology 4 credits
- BIO-3180 Nutrition 3 credits
- CHE-3111 Organic Chemistry I 4 credits
- PSY-2070 Developmental Psychology 3 credits
- PSY-3065 Abnormal Behavior 3 credits

Total: 64-66 credits

## Graduate Study Advisory

Some graduate programs may have admission requirements as noted below that are not required in this program of study and therefore should be taken as electives. **Discuss your academic and career goals with your advisor and identify your electives early in the program.**

- **Doctor of Physical Therapy (DPT) programs sometimes require the following additional prerequisites:**

- One additional psychology course (PSY-2070 or PSY-3065 recommended)
- One additional 4-credit introductory biology course (take BIO-1212 *and* BIO-1210 **or** BIO-1212)
- **Doctor of Chiropractic programs often require the following additional prerequisite:**
  - CHE-3111 Organic Chemistry I
- **Physician's Assistant (PA) graduate programs often require the following prerequisites:**
  - Two semesters of 4-credit advanced biology courses (3000- or 4000-level); students interested in graduate PA programs should replace PHY-1041 Physics I and PHY-1042 Physics II with these courses.

## Secondary Teaching License in Science

Students pursuing licensure endorsement to teach science in grades 7-12 must successfully complete one of the approved majors for this endorsement (the B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy), as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## History (B.A.)

History is recognized as a field central to the liberal arts tradition. Its study of the variety and diversity of human experience through time is vital to developing an educated perspective on the world today.

A history major is an appropriate and useful one for students planning to enter the fields of teaching, public service, museum work, historical preservation and law, as well as those intending to study at the graduate level.

## Learning Outcomes for History Majors

### Each graduate will:

1. Have a general knowledge of the human past and geographical literacy, including events, ideas and individuals that have shaped the world through time.
2. Have an understanding of the economic, political, social, cultural and religious historical forces and the complexity of events that reflect the diversity of human experience.
3. Have specific regional and temporal knowledge of "Western" and "non-Western" cultures.
4. Be competent in locating, evaluating, synthesizing and analyzing historical evidence from primary sources and/or documents.
5. Be capable of understanding, defending, critiquing and developing historical interpretations.
6. Successfully communicate, in oral and written form, his or her findings and interpretations, using proper documentations and scholarly conventions.

## Required Courses

### Category I (18 credits)

- HIS-1111 World History I 3 credits
- HIS-1112 World History II 3 credits
- HIS-1211 American History I 3 credits
- HIS-1212 American History II 3 credits
- HIS-4730 Seminar in Historical Communication 3 credits
- HIS-4740 Seminar in Historical Investigation 3 credits

## Electives (24 credits)

Take eight upper-level elective courses from Categories II and III below. Electives must include at least two courses from Category II and a minimum of 5 must be HIS designated.

### Category II

- HIS-3040 Ancient Civilizations of the New World 3 credits
- HIS-3225 Latin America: Mexico to Chile; History, Politics, Cultures 3 credits
- HIS-3510 Chinese History & Culture 3 credits
- HIS-3520 Japanese History & Culture 3 credits
- HIS-4010 History of the Middle East 3 credits
- HUM-3110 Native American History & Culture 3 credits
- HUM-3120 The Abenaki & Their Neighbors 3 credits
- HUM-3150 People & Cultures of the Middle East & North Africa 3 credits
- HUM-3160 African Culture 3 credits

### Category III

- HIS-3020 Greek & Roman History 3 credits
- HIS-3050 Community in America 3 credits (offered through the JSC External Degree Program)
- HIS-3060 Church & State in America 3 credits (offered through the JSC External Degree Program)
- HIS-3080 Colonial America: History & Life 3 credits
- HIS-3090 Modern German History 3 credits
- HIS-3141 History of the United States in the 20th Century I 3 credits
- HIS-3142 History of the United States in the 20th Century II 3 credits
- HIS-3160 Vermont's Coastal Regions 3 credits (offered through the JSC External Degree Program)
- HIS-3165 Vermont History 3 credits
- HIS-3311 Europe in the 19th Century 3 credits
- HIS-3312 Europe in the 20th Century 3 credits
- HIS-3350 Struggle for Democracy 3 credits (offered through the JSC External Degree Program)
- HIS-3352 English History Since 1714 3 credits
- HIS-3355 The European Enlightenment 3 credits
- HIS-3370 Nationalism & Rebellion in Irish History 3 credits (offered through the JSC External Degree Program)
- HIS-3420 French Revolution 3 credits
- HIS-3430 History of the Soviet Union 3 credits
- HIS-3450 Women in European History 3 credits
- INT-3210 The Holocaust: An Interdisciplinary Approach 3 credits

- POS-3060 Vermont Politics 3 credits
- POS-4010 American Foreign Policy 3 credits

Total: 42 credits

## Secondary Teaching License in Social Studies

Students pursuing licensure endorsement to teach Social Studies in grades 7-12 must successfully complete either the B.A. in History or the B.A. in Political Science, as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Interdisciplinary Studies (B.A.)

The Interdisciplinary Studies major offers students the opportunity and challenge to create their own individually designed interdisciplinary programs. It gives students the tools to explore and understand connections and patterns: within and among disciplines; between self and the world; among different cultures. It seeks to give students knowledge of how great thinkers in various fields have tried to understand experience and use their learning to address problems and engage fully with life.

## Learning Outcomes for Interdisciplinary Studies Majors

Students will be able to:	Evidence:
Connect their academic plan to their personal history and long-term goals.	Plan of Study narrative; reflection papers in capstone course.
Articulate a rationale for their three areas of study and justify the selection of courses in each of those areas.	Plan of Study narrative; plan of study.
Understand the nature and value of interdisciplinary study.	Capstone project; discussion and writing assignments in capstone course.
Demonstrate meaningful connections between their chosen areas of study.	Plan of Study narrative; capstone project; final reflection paper in capstone course.
Demonstrate depth of knowledge in the primary and secondary areas of study.	Completion of capstone course; capstone project; 21 upper-level credits in the major.

Experience and articulate meaningful connections between learning in the major and life outside the classroom.	Extended Classroom Experience (ECE); ECE reflection paper; career exploration assignment.
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## Requirements

**Students must successfully complete a total of 42 credits, at least 21 of which must be upper-division, as follows:**

- 18 credits in a primary area of study;
- 12 credits in a secondary, supporting area of study;
- 9 credits in a tertiary area of study; and
- 3-credit capstone course: INT-4610 Senior Seminar in Interdisciplinary Studies
- An extended classroom experience, which may be credit or non-credit bearing, must be at least 20 hours in length. It can be completed through an existing course, internship, student teaching or service-learning experience.

## Additional Stipulations

- At least 12 of the 42 credits required within the Interdisciplinary Studies major must be taken in the semester(s) after the Plan of Study has been approved.
- Education majors seeking licensure who are using Interdisciplinary Studies as their second major will need to choose their primary and secondary areas of study in a fashion that meets state licensure requirements.
- A grade of C- or higher must be earned in all courses counted toward the 42 credits for the major.
- In general, courses such as Student Teaching in Education, which are specifically aimed at career preparation, are not appropriate for inclusion in the 42 credits for the Interdisciplinary Studies degree.

## Becoming an Interdisciplinary Studies Major

A student interested in becoming an Interdisciplinary Studies major on campus will first contact the Advising & Career Center and be assigned an advisor on the Interdisciplinary Studies Committee (ISC). In the case of the Distance Learning Programs (EDP), the student will be assigned an advisor in his or her community upon entering EDP. The student and advisor will initially explore together the student's interests and identify relationships between different disciplines or clusters of disciplines which the student would like to explore more deeply. With the advisor's assistance and support, the student will write a program proposal that describes in detail the relationships between two or more areas of study. Members of the ISC, who may recommend clarifications or changes, will review the written program proposal, together with the student's transcript and a completed Plan of Study. Once the program proposal has been approved, the student is officially an Interdisciplinary Studies major. The advisor and/or other members of the ISC or EDP staff will continue to work with the student during her/his progress toward a degree.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Management (A.S.)

This program looks at the four major functions of a manager-planning, organizing, leading and controlling-and prepares students for first-line managerial positions. Students also have the business course base to continue in the baccalaureate business management program.

## Required Core Courses (29 credits)

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2410 Human Resource Management 3 credits
- BUS-3131 Business Law I 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

## Electives (6 credits)

- 2 departmental courses from ACC, BUS, CIS, ECO or HTM disciplines.

Total: 35 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Mathematics (A.S.)

This two-year program exposes students to the core principles of mathematics, mathematical thinking, and data driven decision making with statistics. It also provides a strong mathematical foundation for future studies at the bachelor's level.

## Required Core Courses (17 credits)

- MAT-1080 Introduction to Quantitative Reasoning 3 credits
- MAT-1531 Calculus I 4 credits
- MAT-2020 Mathematical Reasoning 3 credits
- MAT-2030 Probability & Statistics 3 credits
- MAT-2532 Calculus II 4 credits

## Electives (Complete 11 or more credits)

See any of the mathematics faculty for guidance selecting courses aligned with your goals; note that some courses will incur additional credit requirements due to prerequisites, although these courses may fulfill General Education Requirements.

- MAT-1020 Intermediate Algebra 3 credits
- MAT-1221 Finite Mathematics 3 credits
- MAT-1320 Pre-Calculus 3 credits
- MAT-2533 Calculus III 4 credits
- MAT-2810 Internship in Mathematics 1-12 credits (Internship should be between 1 and 3 credits)
- MAT-2910 Independent Study in Mathematics 1-12 credits (Independent study should be between 1 and 3 credits)
- MAT-3040 Geometrical Reasoning 3 credits
- MAT-3210 Linear Algebra 3 credits
- MAT-3240 Probability Theory with Statistics 3 credits
- MAT-3310 Differential Equations 3 credits
- MAT-4130 Abstract Algebra 3 credits
- MAT-4140 Geometry 3 credits
- MAT-4710 Special Topics in Mathematics 3 credits
- CIS-2271 Java Programming 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits
- POS-3025 Research Design & Analysis 3 credits
- PSY-2410 Research Methods in Psychology 3 credits

**Total: 28-29 credits**

## General Education Curriculum Requirements (32 credits)

General Education Curriculum Requirements for an Associate's Degree in Mathematics include the following:

First Year Seminar (3 cr.)

Creative Audience (2 semesters at .5 cr. each semester)

Natural Science with a Lab (4 cr.)

Written Expressin (6 cr.)

Aesthetic Perspective (6 cr.)

Global Perspective (6 cr.)

Social & Historical Perspective (6 cr.)

Please refer to the links under "Important" below for more information.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Mathematics (B.S.)

The B.S. in mathematics provides students with an opportunity to study one of western civilization's oldest and richest disciplines. In addition to the intrinsic value of the study of mathematics as a liberal art, the mathematics degree provides the foundation for a variety of careers in business, scientific and related fields. Students desiring preparation for a high school teaching career may also earn secondary mathematics teaching licensure.

## Learning Outcomes for Mathematics Majors

The mathematics program aims to produce graduates who are knowledgeable and skillful users and communicators of mathematics. The learning outcomes are broken into two categories: content knowledge outcomes and capstone outcomes. The content knowledge outcomes are assessed by the Core Assessment Exam, which students take after they have completed the required core courses in the major. The capstone outcomes are assessed when students present their senior projects.

### Content Knowledge Outcomes

Upon completion of the core requirements, students will be able to:

#### *Calculus I:*

- apply the limit definition of the derivative and use it to calculate the instantaneous rate of change of a function.
- calculate the derivative of any algebraic or transcendental function.
- use the derivative to solve real-world problems.
- apply the Fundamental Theorem of Calculus.

#### *Calculus II:*

- apply integration techniques to a variety of algebraic and transcendental functions.
- use the definite integral (and limits of sums) to solve real-world problems.
- determine whether an infinite series converges and, when possible, find its sum.

#### *Linear Algebra:*

- use matrices to solve real-world problems
- use the RREF form of a matrix in a variety of ways (including solving systems of linear equations; testing for linear independence, spanning, and to determine whether a set of vectors forms a basis; finding eigenvectors)
- prove some basic properties of matrices, vectors and linear transformations

#### *Probability & Statistics:*

- apply the normal or binomial distribution to solve certain probability problems.
- calculate probabilities and apply them to determine the unusualness of events.
- create and use descriptive statistics to summarize, analyze and compare data sets.
- explain the importance of random/probability sampling.

#### *Mathematical Reasoning:*

- apply the working tools of predicate logic.
- construct a lucid mathematical proof that demonstrates the logic while using proper grammar and precise mathematical notation.
- explore complex and unfamiliar mathematical ideas while effectively communicating these ideas both orally and in writing.

## Capstone Outcomes:

Students will:

- be able to explain main ideas of mathematics clearly, in writing and orally.
- develop the ability to read mathematics independently.
- deepen their own mathematical knowledge by applying previous mathematical learning to new mathematical thinking, concepts and ideas.

## Mathematics Requirements

### Required Core Courses (17 credits)

Students must pass a core assessment examination upon completion of the core requirements.

- MAT-1531 Calculus I 4 credits
- MAT-2020 Mathematical Reasoning 3 credits
- MAT-2030 Probability & Statistics 3 credits
- MAT-2532 Calculus II 4 credits
- MAT-3210 Linear Algebra 3 credits

### Other Required Courses (6-7 credits)

- PHY-1041 Physics I 4 credits **OR**
- CIS-2271 Java Programming 3 credits

**AND**

- INT-3150 Gödel, Escher, Bach: An Eternal Golden Braid 3 credits  
(Required for students seeking teaching endorsement in math)

### Elective Courses (take at least 15 credits)

- MAT-2533 Calculus III 4 credits \*
- MAT-3240 Probability Theory with Statistics 3 credits \*
- MAT-3310 Differential Equations 3 credits \*
- MAT-4130 Abstract Algebra 3 credits \*
- MAT-4140 Geometry 3 credits \*
- MAT-4710 Special Topics in Mathematics 3 credits

*\*The courses above with an asterisk are required for students seeking teaching endorsement in math.*

### Capstone Requirement (3 credits)

- MAT-4930 Senior Project in Mathematics 3 credits (Required for students seeking teaching endorsement in math)

## Total: 41-42 credits

*Students must earn a grade of C or better in each of the required core courses and in each of the elective courses used to satisfy their degree program requirements.*

**Note:** *It is also recommended that students take a course in economics.*

## Secondary Teaching License in Mathematics

Students pursuing licensure endorsement to teach mathematics in grades 7-12 must successfully complete either the B.S. in Mathematics as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Media Arts (B.A.)

The B.A. in Media Arts will expose students to the full range of career opportunities through the media arts, with fewer credits than the B.F.A. in Media Arts. Students wanting to double-major might find this option more achievable. The B.A. in Media Arts will offer opportunities to explore the world of media and expression with emphases upon creative inquiry, collaboration, and adaptation to emerging technologies. Students will increase their familiarity with artistic and theoretical concepts associated with media and how it relates to many other academic disciplines.

### Required Core Courses (18 credits)

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ARH-3075 History of Media Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-1140 Design I 3 credits
- ART-2110 Introduction to Digital Media 3 credits

### Studio Elective (3 credits)

- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits
- ART-2301 Photography I 3 credits

### Advanced Art History Elective (Select one course; 3 credits)

- ARH-3015 Greek & Roman Art 3 credits
- ARH-3020 Art of the Renaissance 3 credits
- ARH-3060 Twentieth Century Art 3 credits
- ARH-3110 The Spiritual in Non-Western Art 3 credits
- ARH-3120 Art Criticism 3 credits
- ARH-3130 The History of Photography 3 credits
- ARH-3140 African Art 3 credits
- ARH-3150 Art of the Human Body 3 credits
- ARH-3210 Women in Art 3 credits
- ARH-4710 Special Topics in Art History 3 credits

### Advanced Non-Media Studio Electives (Select one course; 3 credits)

- ART-3031 Life Drawing 3 credits
- ART-3032 Advanced Drawing 3 credits
- ART-3040 Landscape Painting 3 credits
- ART-3222 Ceramics II 3 credits
- ART-3314 Advanced Printmaking 3 credits
- ART-3320 Monoprints 3 credits
- ART-4040 Advanced Photography 3 credits
- ART-4050 Advanced Painting 3 credits
- ART-4110 Visual Art & Performance 3 credits
- ART-4130 Advanced Sculpture 3 credits

### Advanced Media Electives (Select four courses; 12 credits)

- ART-4020 Advanced Digital Media 3 credits
- ART-4025 Advanced Digital Media: Documentary & Social Media 3 credits
- ART-4060 Advanced Digital: Graphic Design 3 credits
- ART-4070 Advanced Digital: Web Design for Artists 3 credits
- ART-4075 Advanced Digital: Animation & Motion Graphics 3 credits
- ART-4080 Advanced Digital Media: Intermedia 3 credits
- ART-4150 Advanced Digital: Video 3 credits
- ART-4710 Special Topics in Art 3 credits

### Required Capstone Courses (6 credits)

- ARH-4720 Seminar in Contemporary Art Issues 3 credits
- ART-XXXX Professional Skills for Media Artists (currently under development)

**Total: 45 credits**

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Media Arts (B.F.A.)

The B.F.A. in Media Arts offers opportunities to explore the expanding world of media and expression. Emphases include creative inquiry, collaboration and adaptation to emerging technologies. Courses include image processing, animation, video and new media. The program requires 60 credit hours in visual, performing or interdisciplinary-related coursework. Students begin with introductory courses intended to increase their familiarity with artistic and theoretical concepts associated with media and art. As students progress through the program, they are required to take more specialized courses. Seniors are required to create a B.F.A. thesis exhibition for public display. Once admitted into the B.F.A. program via their B.F.A. review, students must achieve grades of B- or higher in all ART and ARH courses.

This program includes lectures, lab hours, collaborative projects and public presentations. Students are immersed in the Media Arts Research Studio (MARS), which houses state-of-the-art hardware, software and printing services. Admission to the program (generally in the sophomore or junior year) must be followed by a minimum of three semesters of studio work before the thesis exhibition. A student is admitted into the program only upon recommendation by the studio arts faculty and approval by the chairperson, following a successful portfolio review. Once admitted into the B.F.A. program via their B.F.A. review, students must achieve grades of B- or higher in all ART and ARH courses. All majors must participate in the monthly B.F.A. critiques held in the Visual Arts Center Gallery.

Each candidate for the B.F.A. must present a senior thesis and talk during the final year of study. This thesis is prepared under the guidance and supervision of the art faculty and must demonstrate proficiency in the chosen area of concentration.

## Learning Outcomes

### Graduating students should be able to:

1. Develop language and techniques for creating and critiquing media.
2. Learn how to use computers and software for creative purposes.
3. Learn a variety of conceptual, design and experimental art-based principles.
4. Introduce the history and criticism surrounding new media.
5. Discover more about themselves and methods of self-expression through art and media.

## Required Courses (21 credits)

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits
- ART-2301 Photography I 3 credits

## Advanced Art History Electives (6 credits)

(Take ARH-3075 and one additional course)

- ARH-3075 History of Media Art 3 credits
- ARH-3015 Greek & Roman Art 3 credits
- ARH-3020 Art of the Renaissance 3 credits
- ARH-3060 Twentieth Century Art 3 credits
- ARH-3110 The Spiritual in Non-Western Art 3 credits
- ARH-3120 Art Criticism 3 credits
- ARH-3130 The History of Photography 3 credits
- ARH-3140 African Art 3 credits
- ARH-3150 Art of the Human Body 3 credits
- ARH-3210 Women in Art 3 credits
- ARH-4710 Special Topics in Art History 3 credits

## Advanced Non-Media Studio Electives (6 credits)

(Select 2 different courses)

- ART-3031 Life Drawing 3 credits
- ART-3032 Advanced Drawing 3 credits
- ART-3040 Landscape Painting 3 credits
- ART-3222 Ceramics II 3 credits
- ART-3314 Advanced Printmaking 3 credits
- ART-3320 Monoprints 3 credits
- ART-4040 Advanced Photography 3 credits
- ART-4050 Advanced Painting 3 credits
- ART-4110 Visual Art & Performance 3 credits
- ART-4130 Advanced Sculpture 3 credits
- ART-4710 Special Topics in Non-Media Studio Arts 3 credits

## Advanced Media Electives (15 credits)

(Select 5 different courses)

- ART-4020 Advanced Digital Media 3 credits
- ART-4025 Advanced Digital Media: Documentary & Social Media 3 credits
- ART-4060 Advanced Digital: Graphic Design 3 credits
- ART-4070 Advanced Digital: Web Design for Artists 3 credits
- ART-4075 Advanced Digital: Animation & Motion Graphics 3 credits
- ART-4080 Advanced Digital Media: Intermedia 3 credits
- ART-4150 Advanced Digital: Video 3 credits
- ART-4710 Special Topics in Media Arts 3 credits

## Extended Media Experience (3 credits)

(Select one ART-4110 Visual Art & Performance course)

- ART-4810 Internship in Art 1-12 credits (3 credits)
- ENV-3310 Applications in GIS 4 credits
- MUS-2160 Introduction to Technology in Music 2 credits

## Required Capstone Courses (9 credits)

- ARH-4720 Seminar in Contemporary Art Issues 3 credits
- ART-4120 B.F.A. Project & Exhibit 3 credits
- ART-4730 B.F.A. Seminar 3 credits

## Total: 60 credits

- *Grades for ART-4120 B.F.A. Project & Exhibit will be determined by the thesis advisor in consultation with the full department.*
- *Once admitted into the BFA program via their BFA Review, students must achieve grades of B- or higher in all ART and ARH courses.*

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Music (B.A.): Composition concentration

Music students in the Composition concentration explore "the language of music" -- how melody, harmony and rhythm come together to make a piece of music pleasing to the ear -- and compose their own music. Through classes in ear training, students learn to write down chords and melodies they hear and to analyze the structure of musical pieces. **Students graduate with a B.A. in Music with a concentration in Composition.**

## Music Programs at JSC

The B.A. in Music at JSC offers five concentrations in which students can specialize: Composition, Creative Pathways (self-designed program), Instrumental Performance, Sound Engineering and Vocal Performance. Students graduate with a B.A. in Music with a concentration in their area of specialization. All programs are designed for students who already have basic proficiency in an instrument or voice; who are interested in advanced training in areas of technique, music theory, music skills, composition, history and style; and who are seriously interested in pursuing advanced degrees or careers in music and the music industry. All concentrations include a senior project or capstone experience designed to help engage the student in thoughtful decision making regarding post-collegiate activities in music. An audition is required for entry to the major and all majors need to demonstrate fundamental proficiency in music before beginning the music theory core.

## Learning Outcomes

Graduating students will have:

1. An understanding of the common elements and organizational patterns of music (rhythm, melody, harmony, structure, timbre, texture) and their interaction, and be able to employ this understanding in aural, verbal and visual analyses. As part of this process, students will develop their skills in musical notation and aural dictation.
2. An understanding of and the ability to read and realize musical notation at sight in both keyboard and the primary instrument (or a secondary instrument if piano is the primary instrument) with fluency, demonstrating both musicianship and proficiency necessary to the student's chosen concentration.
3. An understanding of and capability with musical forms, compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces. Students will use this knowledge and skill in compositional, performance, analytical, scholarly, and pedagogical applications.
4. Basic knowledge of music history, an acquaintance with a wide selection of musical literature through to the present time, and the ability to place music in historical, cultural and stylistic contexts.
5. The ability to form and defend value judgments about music, and to communicate musical ideas, concepts, and requirements to professionals and laypersons related to the practice of the major field in both written and oral contexts, utilizing appropriate musical language/terminology.
6. Experienced growth in artistry, technical skills and knowledge of repertory (and the ability to perform from a cross-section of that repertory) requisite for artistic self-expression in performing on their primary instrument at a level consistent with the goals and objectives of their chosen concentration in both solo and ensemble contexts through regular solo and ensemble rehearsals and performances of various sizes and nature. Students are expected to combine these attributes with appropriate rehearsal and conducting skills sufficient to work both collaboratively and as a leader on matters of musical interpretation.

## Required Core Music Courses (41-42 credits)

- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1231 Music Theory I 3 credits
- The above courses should be taken concurrently.
  
- MUS-1052 Keyboard Harmony II 1 credits
- MUS-1062 Ear Training II 1 credits
- MUS-1232 Music Theory II 3 credits
- The above courses should be taken concurrently.
  
- MUS-2023 Ear Training III 1 credits
- MUS-2053 Keyboard Harmony III 1 credits
- MUS-2313 Music Theory III 3 credits
- The above courses should be taken concurrently.
  
- MUS-2024 Ear Training IV 1 credits
- MUS-2054 Keyboard Harmony IV 1 credits
- MUS-2314 Music Theory IV 3 credits
- The above courses should be taken concurrently.
  
- MUS-2160 Introduction to Technology in Music 2 credits **OR**
- MUS-3215 Technology for the Music Classroom 3 credits
  
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (4 credits required) \*
- MUS-3140 Arranging/Orchestration 3 credits
- MUS-3031 History of Western Music I 3 credits
- MUS-3032 History of Western Music II 3 credits

- MUS-3240 Applied Music Lessons 1 credits (6 credits required) (all in one primary instrument and includes a required lab) \*\*

*\* Enrollment in a Music Ensemble is required of all students for every semester as a music major. Every semester the primary ensemble must be consistent with the student's primary instrument (e.g., All voice primary students must enroll in a choral ensemble, all classical instrumentalists in Concert Band, all jazz/contemporary instrumentalists in one of the related contemporary ensembles.) There are no limits in secondary ensembles, which are encouraged of all music majors.*

*\*\* Music majors are automatically enrolled in an MUS-1120L Applied Music Lesson Lab for 0 credits each semester that they register for Applied Music/Voice Lessons until they complete the requirement.*

Note: Enrollment in End-of-Semester Jury Performance, for 0 credits, is required every semester in conjunction with the applied music lessons (with the exception of the first semester of applied instruction).

## Composition Concentration

### Required Concentration Courses (9 credits)

- MUS-3240 Applied Music Lessons 1 credits (4 credits required) (four semesters in composition)
- MUS-4720 Senior Recital 2 credits

\*In addition to the above courses and under the guidance of an academic advisor, students in the Composition concentration must also complete 3 credits of music electives at the 3000/4000-level.

Total: 50-51 credits

### Additional Recommended Courses

- Additional Applied Music Lessons in primary instrument and a second instrument (piano highly recommended).
- Additional Music Ensembles - All music majors are encouraged to register for more than one music ensemble for their primary instrument and/or for secondary and tertiary experiences.
- Students with an interest in jazz-based study are encouraged to take *Jazz in American*, *History of the Blues*, *Jazz Ensemble*, and *FYS: Songwriting* or *FYS: History and Culture of New Orleans*.
- It is recommended that all music majors take *QE: Conducting I* to fulfill the "quantitatively enriched" course requirement for Part II of the Quantitative Reasoning Graduation Standard.

## Keyboard Proficiency Exam Requirement

The Keyboard Proficiency Exam is required of all Music, Music Education, and Musical Theater majors. All students must pass the specific requirements of the keyboard proficiency examination for their major. The exam is held during the final weeks of each semester on the same day as end-of-semester juries; students may sign up for the exam two weeks prior to that date and should contact their academic advisor for more information.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Music (B.A.): Creative Pathways concentration

Creative Pathways is the "design-your-own-program" concentration of the B.A. in Music. Some examples of potential student pathway designs include music therapy, the psychology of music, music theory, music history/musicology, music publishing, and choral conducting. The program involves taking music lessons and spending long hours practicing and rehearsing. A senior internship or capstone experience is required. **Students graduate with a B.A. in Music with a concentration in Creative Pathways.**

## Music Programs at JSC

The B.A. in Music at JSC offers five concentrations in which students can specialize: Composition, Creative Pathways (self-designed program), Instrumental Performance, Sound Engineering and Vocal Performance. Students graduate with a B.A. in Music with a concentration in their area of specialization. All programs are designed for students who already have basic proficiency in an instrument or voice; who are interested in advanced training in areas of technique, music theory, music skills, composition, history and style; and who are seriously interested in pursuing advanced degrees or careers in music and the music industry. All concentrations include a senior project or capstone experience designed to help engage the student in thoughtful decision making regarding post-collegiate activities in music. An audition is required for entry to the major and all majors need to demonstrate fundamental proficiency in music before beginning the music theory core.

## Learning Outcomes

Graduating students will have:

1. An understanding of the common elements and organizational patterns of music (rhythm, melody, harmony, structure, timbre, texture) and their interaction, and be able to employ this understanding in aural, verbal and visual analyses. As part of this process, students will develop their skills in musical notation and aural dictation.
2. An understanding of and the ability to read and realize musical notation at sight in both keyboard and the primary instrument (or a secondary instrument if piano is the primary instrument) with fluency, demonstrating both musicianship and proficiency necessary to the student's chosen concentration.
3. An understanding of and capability with musical forms, compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces. Students will use this knowledge and skill in compositional, performance, analytical, scholarly, and pedagogical applications.
4. Basic knowledge of music history, an acquaintance with a wide selection of musical literature through to the present time, and the ability to place music in historical, cultural and stylistic contexts.
5. The ability to form and defend value judgments about music, and to communicate musical ideas, concepts, and requirements to professionals and laypersons related to the practice of the major field in both written and oral contexts, utilizing appropriate musical language/terminology.
6. Experienced growth in artistry, technical skills and knowledge of repertory (and the ability to perform from a cross-section of that repertory) requisite for artistic self-expression in performing on their primary instrument at a level consistent with the goals and objectives of their chosen concentration in both solo and ensemble contexts through regular solo and ensemble rehearsals and performances of various sizes and nature. Students are expected to combine these attributes with appropriate rehearsal and conducting skills sufficient to work both collaboratively and as a leader on matters of musical interpretation.

## Required Core Music Courses (41-42 credits)

- MUS-1051 Keyboard Harmony I 1 credits
  - MUS-1061 Ear Training I 1 credits
  - MUS-1231 Music Theory I 3 credits
- The above courses should be taken concurrently.

- MUS-1052 Keyboard Harmony II 1 credits
  - MUS-1062 Ear Training II 1 credits
  - MUS-1232 Music Theory II 3 credits
- The above courses should be taken concurrently.

- MUS-2023 Ear Training III 1 credits
  - MUS-2053 Keyboard Harmony III 1 credits
  - MUS-2313 Music Theory III 3 credits
- The above courses should be taken concurrently.

- MUS-2024 Ear Training IV 1 credits
  - MUS-2054 Keyboard Harmony IV 1 credits
  - MUS-2314 Music Theory IV 3 credits
- The above courses should be taken concurrently.

- MUS-2160 Introduction to Technology in Music 2 credits **OR**
- MUS-3215 Technology for the Music Classroom 3 credits

- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (4 credits required) \*
- MUS-3140 Arranging/Orchestration 3 credits
- MUS-3031 History of Western Music I 3 credits
- MUS-3032 History of Western Music II 3 credits
- MUS-3240 Applied Music Lessons 1 credits (6 credits required) (all in one primary instrument and includes a required lab) \*\*

*\* Enrollment in a Music Ensemble is required of all students for every semester as a music major. Every semester the primary ensemble must be consistent with the student's primary instrument (e.g., All voice primary students must enroll in a choral ensemble, all classical instrumentalists in Concert Band, all jazz/contemporary instrumentalists in one of the related contemporary ensembles.) There are no limits in secondary ensembles, which are encouraged of all music majors.*

*\*\* Music majors are automatically enrolled in an MUS-1120L Applied Music Lesson Lab for 0 credits each semester that they register for Applied Music/Voice Lessons until they complete the requirement.*

Note: Enrollment in End-of-Semester Jury Performance, for 0 credits, is required every semester in conjunction with the applied music lessons (with the exception of the first semester of applied instruction).

## Creative Pathways Concentration

### Required Concentration Courses (11 credits)

- Students must complete 9 credits of music electives under the guidance of an academic advisor.

- Students will complete a 2-credit senior project in music guided under the senior recital course. This project is designed with the aid of the academic advisor to be relevant to the student's desired pathway. It should include both written and oral components.

**Total: 52-53 credits**

## Additional Recommended Courses

- Additional Applied Music Lessons in primary instrument and a second instrument (piano highly recommended).
- Additional Music Ensembles -- All music majors are encouraged to register for more than one music ensemble for their primary instrument and/or for secondary and tertiary experiences.
- Students with an interest in jazz-based study are encouraged to take *Jazz in America*, *History of the Blues*, *Jazz Ensemble*, and *FYS: Songwriting* or *FYS: History and Culture of New Orleans*.
- It is recommended that all music majors take *QE: Conducting I* to fulfill the "quantitatively enriched" course requirement for Part II of the Quantitative Reasoning Graduation Standard.
- Non-major courses as relevant to the student's focus area (e.g., psychology for music therapy, business courses for music business and publishing, creative writing for songwriting, etc.).  
MUS-XXXX, Music electives under the guidance of an advisor (9 credits)
- MUS-4810 Internship in Music 1-12 credits (2 credits)

## Keyboard Proficiency Exam Requirement

The Keyboard Proficiency Exam is required of all Music, Music Education, and Musical Theater majors. All students must pass the specific requirements of the keyboard proficiency examination for their major. The exam is held during the final weeks of each semester on the same day as end-of-semester juries; students may sign up for the exam two weeks prior to that date and should contact their academic advisor for more information.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Music (B.A.): Instrumental Performance concentration

Students in this program graduate with a **B.A. in Music with a concentration in Instrumental Performance**.

### Music Programs at JSC

The B.A. in Music at JSC offers five concentrations in which students can specialize: Composition, Creative Pathways (self-designed program), Instrumental Performance, Sound Engineering and Vocal Performance. Students graduate with a B.A. in Music with a concentration in their area of specialization. All programs are designed for students who already have basic proficiency in an instrument or voice; who are interested in advanced training in areas of technique, music theory, music skills, composition, history and style; and who are seriously interested in pursuing advanced degrees or careers in music and the music industry. All concentrations include a senior project or capstone experience designed to help engage the student in thoughtful decision making regarding post-collegiate activities in music. An audition is required for entry to the major and all majors need to demonstrate fundamental proficiency in music before beginning the music theory core.

# Learning Outcomes

Graduating students will have:

1. An understanding of the common elements and organizational patterns of music (rhythm, melody, harmony, structure, timbre, texture) and their interaction, and be able to employ this understanding in aural, verbal and visual analyses. As part of this process, students will develop their skills in musical notation and aural dictation.
2. An understanding of and the ability to read and realize musical notation at sight in both keyboard and the primary instrument (or a secondary instrument if piano is the primary instrument) with fluency, demonstrating both musicianship and proficiency necessary to the student's chosen concentration.
3. An understanding of and capability with musical forms, compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces. Students will use this knowledge and skill in compositional, performance, analytical, scholarly, and pedagogical applications.
4. Basic knowledge of music history, an acquaintance with a wide selection of musical literature through to the present time, and the ability to place music in historical, cultural and stylistic contexts.
5. The ability to form and defend value judgments about music, and to communicate musical ideas, concepts, and requirements to professionals and laypersons related to the practice of the major field in both written and oral contexts, utilizing appropriate musical language/terminology.
6. Experienced growth in artistry, technical skills and knowledge of repertory (and the ability to perform from a cross-section of that repertory) requisite for artistic self-expression in performing on their primary instrument at a level consistent with the goals and objectives of their chosen concentration in both solo and ensemble contexts through regular solo and ensemble rehearsals and performances of various sizes and nature. Students are expected to combine these attributes with appropriate rehearsal and conducting skills sufficient to work both collaboratively and as a leader on matters of musical interpretation.

## Required Core Music Courses (41-42 credits)

- MUS-1051 Keyboard Harmony I 1 credits
  - MUS-1061 Ear Training I 1 credits
  - MUS-1231 Music Theory I 3 credits
- The above courses should be taken concurrently.
- MUS-1052 Keyboard Harmony II 1 credits
  - MUS-1062 Ear Training II 1 credits
  - MUS-1232 Music Theory II 3 credits
- The above courses should be taken concurrently.
- MUS-2023 Ear Training III 1 credits
  - MUS-2053 Keyboard Harmony III 1 credits
  - MUS-2313 Music Theory III 3 credits
- The above courses should be taken concurrently.
- MUS-2024 Ear Training IV 1 credits
  - MUS-2054 Keyboard Harmony IV 1 credits
  - MUS-2314 Music Theory IV 3 credits
- The above courses should be taken concurrently.
- MUS-2160 Introduction to Technology in Music 2 credits **OR**
  - MUS-3215 Technology for the Music Classroom 3 credits

- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (4 credits required) \*
- MUS-3140 Arranging/Orchestration 3 credits
- MUS-3031 History of Western Music I 3 credits
- MUS-3032 History of Western Music II 3 credits
- MUS-3240 Applied Music Lessons 1 credits (6 credits required) (all in one primary instrument and includes a required lab) \*\*

*\* Enrollment in a Music Ensemble is required of all students for every semester as a music major. Every semester the primary ensemble must be consistent with the student's primary instrument (e.g., All voice primary students must enroll in a choral ensemble, all classical instrumentalists in Concert Band, all jazz/contemporary instrumentalists in one of the related contemporary ensembles.) There are no limits in secondary ensembles, which are encouraged of all music majors.*

*\*\* Music majors are automatically enrolled in an MUS-1120L Applied Music Lesson Lab for 0 credits each semester that they register for Applied Music/Voice Lessons until they complete the requirement.*

Note: Enrollment in End-of-Semester Jury Performance, for 0 credits, is required every semester in conjunction with the applied music lessons (with the exception of the first semester of applied instruction).

## Instrumental Performance Concentration

### Required Concentration Courses (7 credits)

- MUS-3240 Applied Music Lessons 1 credits (in primary instrument and for 2 credits above core requirement)
- MUS-4720 Senior Recital 2 credits

\*In addition to the above courses, students in the Instrumental Performance concentration also need to take 3 credits of music electives at the 3000/4000 level under the guidance of an academic advisor.

Total: 48-49 credits

### Additional Recommended Courses

- Additional Applied Music Lessons in primary instrument and a second instrument (piano highly recommended).
- Additional Music Ensembles - All music majors are encouraged to register for more than one music ensemble for their primary instrument and/or for secondary and tertiary experiences.
- Students with an interest in jazz-based study are encouraged to take *Jazz in American*, *History of the Blues*, *Jazz Ensemble*, and *FYS: Songwriting* or *FYS: History and Culture of New Orleans*.
- It is recommended that all music majors take *QE: Conducting I* to fulfill the "quantitatively enriched" course requirement for Part II of the Quantitative Reasoning Graduation Standard.

## Keyboard Proficiency Exam Requirement

The Keyboard Proficiency Exam is required of all Music, Music Education, and Musical Theater majors. All students must pass the specific requirements of the keyboard proficiency examination for their major. The exam is held during the final weeks of

each semester on the same day as end-of-semester juries; students may sign up for the exam two weeks prior to that date and should contact their academic advisor for more information.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Music (B.A.): Sound Engineering concentration

Students in this concentration focus on the "science of sound" using state-of-the-art equipment in Dibden Center for the Arts, JSC's digital recording studio and the college's music technology lab. A senior internship or capstone experience is required. **Students graduate with a B.A. in Music with a concentration in Sound Engineering.**

## Music Programs at JSC

The B.A. in Music at JSC offers five concentrations in which students can specialize: Composition, Creative Pathways (self-designed program), Instrumental Performance, Sound Engineering and Vocal Performance. Students graduate with a B.A. in Music with a concentration in their area of specialization. All programs are designed for students who already have basic proficiency in an instrument or voice; who are interested in advanced training in areas of technique, music theory, music skills, composition, history and style; and who are seriously interested in pursuing advanced degrees or careers in music and the music industry. All concentrations include a senior project or capstone experience designed to help engage the student in thoughtful decision making regarding post-collegiate activities in music. An audition is required for entry to the major and all majors need to demonstrate fundamental proficiency in music before beginning the music theory core.

## Learning Outcomes

Graduating students will have:

1. An understanding of the common elements and organizational patterns of music (rhythm, melody, harmony, structure, timbre, texture) and their interaction, and be able to employ this understanding in aural, verbal and visual analyses. As part of this process, students will develop their skills in musical notation and aural dictation.
2. An understanding of and the ability to read and realize musical notation at sight in both keyboard and the primary instrument (or a secondary instrument if piano is the primary instrument) with fluency, demonstrating both musicianship and proficiency necessary to the student's chosen concentration.
3. An understanding of and capability with musical forms, compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces. Students will use this knowledge and skill in compositional, performance, analytical, scholarly, and pedagogical applications.
4. Basic knowledge of music history, an acquaintance with a wide selection of musical literature through to the present time, and the ability to place music in historical, cultural and stylistic contexts.
5. The ability to form and defend value judgments about music, and to communicate musical ideas, concepts, and requirements to professionals and laypersons related to the practice of the major field in both written and oral contexts, utilizing appropriate musical language/terminology.
6. Experienced growth in artistry, technical skills and knowledge of repertory (and the ability to perform from a cross-section of that repertory) requisite for artistic self-expression in performing on their primary instrument at a level consistent with the goals and objectives of their chosen concentration in both solo and ensemble contexts through regular solo and ensemble rehearsals and performances of various sizes and nature. Students are expected to combine these attributes with appropriate rehearsal and conducting skills sufficient to work both collaboratively and as a leader on matters of musical interpretation.

## Required Core Music Courses (41-42 credits)

- MUS-1051 Keyboard Harmony I 1 credits
  - MUS-1061 Ear Training I 1 credits
  - MUS-1231 Music Theory I 3 credits
- The above courses should be taken concurrently.
- MUS-1052 Keyboard Harmony II 1 credits
  - MUS-1062 Ear Training II 1 credits
  - MUS-1232 Music Theory II 3 credits
- The above courses should be taken concurrently.
- MUS-2023 Ear Training III 1 credits
  - MUS-2053 Keyboard Harmony III 1 credits
  - MUS-2313 Music Theory III 3 credits
- The above courses should be taken concurrently.
- MUS-2024 Ear Training IV 1 credits
  - MUS-2054 Keyboard Harmony IV 1 credits
  - MUS-2314 Music Theory IV 3 credits
- The above courses should be taken concurrently.
- MUS-2160 Introduction to Technology in Music 2 credits **OR**
  - MUS-3215 Technology for the Music Classroom 3 credits
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (4 credits required) \*
  - MUS-3140 Arranging/Orchestration 3 credits
  - MUS-3031 History of Western Music I 3 credits
  - MUS-3032 History of Western Music II 3 credits
  - MUS-3240 Applied Music Lessons 1 credits (6 credits required) (all in one primary instrument and includes a required lab) \*\*

*\* Enrollment in a Music Ensemble is required of all students for every semester as a music major. Every semester the primary ensemble must be consistent with the student's primary instrument (e.g., All voice primary students must enroll in a choral ensemble, all classical instrumentalists in Concert Band, all jazz/contemporary instrumentalists in one of the related contemporary ensembles.) There are no limits in secondary ensembles, which are encouraged of all music majors.*

*\*\* Music majors are automatically enrolled in an MUS-1120L Applied Music Lesson Lab for 0 credits each semester that they register for Applied Music/Voice Lessons until they complete the requirement.*

Note: Enrollment in End-of-Semester Jury Performance, for 0 credits, is required every semester in conjunction with the applied music lessons (with the exception of the first semester of applied instruction).

## Sound Engineering Concentration

### Required Concentration Courses (9-20 credits)

- MUS-2231 Studio Recording I 3 credits
- MUS-3272 Studio Recording II 3 credits
- MUS-4020 Final Production in Studio Recording 2 credits
- MUS-4810 Internship in Music 1-12 credits

Total: 50-62 credits

## Additional Recommended Courses

- Additional Applied Music Lessons in primary instrument and a second instrument (piano highly recommended).
- Additional Music Ensembles - All music majors are encouraged to register for more than one music ensemble for their primary instrument and/or for secondary and tertiary experiences.
- Students with an interest in jazz-based study are encouraged to take *Jazz in American*, *History of the Blues*, *Jazz Ensemble*, and *FYS: Songwriting* or *FYS: History and Culture of New Orleans*.
- It is recommended that all music majors take *QE: Conducting I* to fulfill the "quantitatively enriched" course requirement for Part II of the Quantitative Reasoning Graduation Standard.

## Keyboard Proficiency Exam Requirement

The Keyboard Proficiency Exam is required of all Music, Music Education, and Musical Theater majors. All students must pass the specific requirements of the keyboard proficiency examination for their major. The exam is held during the final weeks of each semester on the same day as end-of-semester juries; students may sign up for the exam two weeks prior to that date and should contact their academic advisor for more information.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Music (B.A.): Vocal Performance concentration

Students in this program graduate with a **B.A. in Music with a concentration in Vocal Performance**.

## Music Programs at JSC

The B.A. in Music at JSC offers five concentrations in which students can specialize: Composition, Creative Pathways (self-designed program), Instrumental Performance, Sound Engineering and Vocal Performance. Students graduate with a B.A. in Music with a concentration in their area of specialization. All programs are designed for students who already have basic proficiency in an instrument or voice; who are interested in advanced training in areas of technique, music theory, music skills, composition, history and style; and who are seriously interested in pursuing advanced degrees or careers in music and the music industry. All concentrations include a senior project or capstone experience designed to help engage the student in thoughtful decision making regarding post-collegiate activities in music. An audition is required for entry to the major and all majors need to demonstrate fundamental proficiency in music before beginning the music theory core.

## Learning Outcomes

Graduating students will have:

1. An understanding of the common elements and organizational patterns of music (rhythm, melody, harmony, structure, timbre, texture) and their interaction, and be able to employ this understanding in aural, verbal and visual analyses. As part of this process, students will develop their skills in musical notation and aural dictation.
2. An understanding of and the ability to read and realize musical notation at sight in both keyboard and the primary instrument (or a secondary instrument if piano is the primary instrument) with fluency, demonstrating both musicianship and proficiency necessary to the student's chosen concentration.
3. An understanding of and capability with musical forms, compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces. Students will use this knowledge and skill in compositional, performance, analytical, scholarly, and pedagogical applications.
4. Basic knowledge of music history, an acquaintance with a wide selection of musical literature through to the present time, and the ability to place music in historical, cultural and stylistic contexts.
5. The ability to form and defend value judgments about music, and to communicate musical ideas, concepts, and requirements to professionals and laypersons related to the practice of the major field in both written and oral contexts, utilizing appropriate musical language/terminology.
6. Experienced growth in artistry, technical skills and knowledge of repertory (and the ability to perform from a cross-section of that repertory) requisite for artistic self-expression in performing on their primary instrument at a level consistent with the goals and objectives of their chosen concentration in both solo and ensemble contexts through regular solo and ensemble rehearsals and performances of various sizes and nature. Students are expected to combine these attributes with appropriate rehearsal and conducting skills sufficient to work both collaboratively and as a leader on matters of musical interpretation.

## Required Core Music Courses (41-42 credits)

- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1231 Music Theory I 3 credits
- The above courses should be taken concurrently.
  
- MUS-1052 Keyboard Harmony II 1 credits
- MUS-1062 Ear Training II 1 credits
- MUS-1232 Music Theory II 3 credits
- The above courses should be taken concurrently.
  
- MUS-2023 Ear Training III 1 credits
- MUS-2053 Keyboard Harmony III 1 credits
- MUS-2313 Music Theory III 3 credits
- The above courses should be taken concurrently.
  
- MUS-2024 Ear Training IV 1 credits
- MUS-2054 Keyboard Harmony IV 1 credits
- MUS-2314 Music Theory IV 3 credits
- The above courses should be taken concurrently.
  
- MUS-2160 Introduction to Technology in Music 2 credits **OR**
- MUS-3215 Technology for the Music Classroom 3 credits
  
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (4 credits required) \*
- MUS-3140 Arranging/Orchestration 3 credits
- MUS-3031 History of Western Music I 3 credits

- MUS-3032 History of Western Music II 3 credits
- MUS-3240 Applied Music Lessons 1 credits (6 credits required) (all in one primary instrument and includes a required lab) \*\*

*\* Enrollment in a Music Ensemble is required of all students for every semester as a music major. Every semester the primary ensemble must be consistent with the student's primary instrument (e.g., All voice primary students must enroll in a choral ensemble, all classical instrumentalists in Concert Band, all jazz/contemporary instrumentalists in one of the related contemporary ensembles.) There are no limits in secondary ensembles, which are encouraged of all music majors.*

*\*\* Music majors are automatically enrolled in an MUS-1120L Applied Music Lesson Lab for 0 credits each semester that they register for Applied Music/Voice Lessons until they complete the requirement.*

Note: Enrollment in End-of-Semester Jury Performance, for 0 credits, is required every semester in conjunction with the applied music lessons (with the exception of the first semester of applied instruction).

## Vocal Performance Concentration

### Required Concentration Courses (8 credits)

- MUS-2040 Foreign Language Diction 2 credits
- MUS-3060 Vocal Pedagogy 2 credits
- MUS-3240 Applied Music Lessons 1 credits (2 credits) (for 2 credits above the core requirement)
- MUS-4720 Senior Recital 2 credits

Total: 49-50 credits

### Additional Recommended Courses

- DAN-1010 Fundamentals of Dance 3 credits
- DAN-2131 Ballet 3 credits
- FRE-1111 French I 3 credits
- FRE-1111L French I Lab 1 credits
- FRE-1112 French II 3 credits
- FRE-1112L French II Lab 1 credits
- MUS-3230 Survey of American Musical Theater 3 credits
- MUS-3260 Music Theater Workshop 3 credits
- Additional Applied Music Lessons in voice as well as lessons in a second instrument (piano highly recommended).
- Additional Music Ensembles - All music majors are encouraged to register for more than one music ensemble for their primary instrument and/or for secondary and tertiary experiences.
- Students with an interest in vocal jazz are encouraged to take *Jazz in American*, *History of the Blues*, and *FYS: Songwriting* or *FYS: History and Culture of New Orleans*.
- It is recommended that all music majors take *QE: Conducting I* to fulfill the "quantitatively enriched" course requirement for Part II of the Quantitative Reasoning Graduation Standard.

- THA-1041 Introduction to Theater Arts 3 credits
- THA-2121 Acting I 3 credits
- THA-2121L Acting I Lab 1 credits

## Keyboard Proficiency Exam Requirement

The Keyboard Proficiency Exam is required of all Music, Music Education, and Musical Theater majors. All students must pass the specific requirements of the keyboard proficiency examination for their major. The exam is held during the final weeks of each semester on the same day as end-of-semester juries; students may sign up for the exam two weeks prior to that date and should contact their academic advisor for more information.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Music Education (B.M.E.)

The Music Education major assists students with the application for State of Vermont Certification for all specializations in Music, grades PK-12. This program guides students through the licensure procedures from the earliest levels of their collegiate education through to the completion of the student teaching internship, and includes requirements in instrumental, choral, and general music methods. The hallmark of the program is the comprehensive nature of the major supported by strong curricular sequencing of the course work.

The Music Education Department of Johnson State College endeavors to create an inviting learning environment that provides a systematic, experience-based curriculum in the areas of self-reflection, curiosity, and enthusiasm in its future educators. Successful music educators exhibit personal qualities of leadership, intellectual curiosity, and social commitment. They approach life, music, and the teaching profession in a positive, creative, and enthusiastic way.

Musicians are most successful as teachers if they understand current structures, systems, and practices in education. The music educator in this age of educational change and accountability must be able to express knowledge of teaching and learning through verbal communication and through overt, demonstrable high-level musical and teaching skills. Johnson State College graduates plan and implement effective, developmentally-appropriate lessons and curricula based upon sound principles of content knowledge, skill development, and pedagogy. They employ the National Standards in Music Education and use appropriate materials and strategies to develop students' critical thinking, problem solving, and performance skills, all while conveying their deep love of music.

Johnson State College faculty are dedicated to preparing its candidates for careers as professional music educators and to emulate and convey the following principles: pursuing excellence in education; a commitment to diversity and cultural awareness; and excellence in musicianship, pedagogy, research and scholarship. Music educators from JSC enter the field with the skills, knowledge, confidence, and enthusiasm to successfully provide their future students with a complete and fulfilling musical experience.

### Learning Outcomes:

Music Education majors have student learning outcomes provided in the B.A. in Music program, the Department of Education, and those provided below specific to the Music Education major. These learning outcomes are consistent with guidelines from the National Associations of Schools of Music and licensure requirements for the State of Vermont.

1. Knowledge, performance ability, and pedagogical skills sufficient to teach students effective use of instruments and/or voice.

2. Knowledge of content, methodologies, philosophies, materials, technologies, and curriculum development in music education for the general music, instrumental, and vocal music settings in grades K-12.
3. Demonstrate the ability to teach technique and lead performance-based instruction in a variety of settings including individual and small group and large group ensembles for both instruments and voices.
4. Performance ability sufficient to use at least one instrument as a teaching tool and to provide, transpose, and improvise accompaniments.
5. Ability to teach music at various levels to different age groups and in a variety of classroom and ensemble settings in ways that develop knowledge of how music works syntactically as a communication medium and developmentally as an agent of civilization. This set of abilities includes effective classroom and rehearsal management.
6. An understanding of child growth and development and an understanding of principles of learning as they relate to music.
7. An understanding of evaluative techniques and ability to apply them in assessing both the musical progress of students and the objectives and procedures of the curriculum.

All students shall demonstrate these learning outcomes by:

1. Successfully completing the Praxis II exam for the Music Content area with a score that meets the Vermont Certification Guidelines,
2. Developing well-organized, standards-based lessons and unit plans in all content areas of certification (K-12 instrumental, choral & general music),
3. Demonstrating the teaching skills expected of a beginning music educator through required peer teaching activities, practicum, and student teaching experiences,
4. Successfully completing the licensure portfolio required by the College and for Vermont State Certification.

To earn a Bachelor of Music Education, students must complete the B.A. music performance core requirements, the music education requirements, and the Department of Education course requirements. In addition, students must complete the General Education requirements outlined below.

## Music Performance Core Requirements (39-41 credits)

### Required Courses

- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1231 Music Theory I 3 credits
- The above courses should be taken concurrently.
  
- MUS-1052 Keyboard Harmony II 1 credits
- MUS-1062 Ear Training II 1 credits
- MUS-1232 Music Theory II 3 credits
- The above courses should be taken concurrently.
  
- MUS-2053 Keyboard Harmony III 1 credits
- MUS-2023 Ear Training III 1 credits
- MUS-2313 Music Theory III 3 credits
- The above courses should be taken concurrently.
  
- MUS-2054 Keyboard Harmony IV 1 credits
- MUS-2024 Ear Training IV 1 credits
- MUS-2314 Music Theory IV 3 credits
- The above courses should be taken concurrently.

- MUS-2040 Foreign Language Diction 2 credits (Only required for voice primary students; recommended for others)
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (Required every semester) (must complete 3 credits in total)
- MUS-3031 History of Western Music I 3 credits
- MUS-3032 History of Western Music II 3 credits
- MUS-3140 Arranging/Orchestration 3 credits
- MUS-3240 Applied Music Lessons 1 credits (6 credits in one primary voice or instrument required)
- MUS-3510 Junior Recital 1 credits

## Music Education Core Requirements

\*Students must earn a B- or better in all the Music Education Core Requirement courses.

### Required Music Education Tool Courses (9 credits)

- MUS-3215 Technology for the Music Classroom 3 credits
- MUS-3401 Conducting I 3 credits
- MUS-3402 Conducting II 3 credits

### Required Instrumental Music Methods Courses (9 credits)

- MUS-2361 Instrumental Techniques I 3 credits
- MUS-2362 Instrumental Techniques II 3 credits
- MUS-3240 Applied Music Lessons 1 credits (in Strings)
- MUS-3310 Band Methods 2 credits

### Required Vocal Music Methods Courses (7 credits)

- MUS-3060 Vocal Pedagogy 2 credits
- MUS-3080 Choral Literature 2 credits
- MUS-3270 Choral Methods 3 credits

### Required General Music Methods Courses (8 credits)

- MUS-2250 Introduction to Music Education 2 credits
- MUS-3160 Elementary School Music Methods 3 credits
- MUS-3210 Secondary School Music Methods 3 credits

## Department of Education Course Requirements (33 credits)

\*Students must earn a B- or better in all the courses within the Department of Education Course Requirements.

\*All Music Education majors are waived from taking the Department of Education "Perspectives on Learning" course.

- EDU-2365 The Ecology of Human Experience: Development, Culture & Identity 3 credits
- EDU-2370 The Contemporary School 3 credits
- EDU-3112 Instructional Dynamics for the Elementary Educator: Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Learners; Part III: Unified Arts for Diverse Learners 3 credits
- EDU-3311 Foundations of Inclusive Practices 3 credits
- EDU-3440 Teaching Toward Democracy 3 credits
- EDU-4310 The Art of Experience in Education: Designing for Engagement & Accomplishment through the Unified Arts 3 credits
- EDU-4650 Capstone & Thesis Seminar 3 credits
- EDU-4812 Unified Arts Student Teaching 12 credits

In addition to the above courses, students must complete the following Teacher Education Workshops:

- EDU-TEW1 Teacher Education Workshop 1: Introduction to Teacher Education 0 credits
- EDU-TEW2 Teacher Education Workshop 2: Application for Practicum I 0 credits
- EDU-TEW3 Teacher Education Workshop 3: Application for Practicum II 0 credits
- EDU-TEW4 Teacher Education Workshop 4: Application for student teaching 0 credits
- EDU-TEW5 Teacher Education Workshop 5: Application for a Verification Check 0 credits

## General Education Requirements (21-23 additional credits)

### Foundation Skills (18-20 credits):

ENG-1071, College Writing (3 cr.)

ENG-1072, Exposition & Analysis (3 cr.)

Two math courses or Calculus (4-6 cr.)

First-Year Seminar (3 cr.)

Creative Audience (2 semesters at .5 cr. each semester)

A lab science course (4 cr.)

A "QE" (Quantitatively Enriched) course (3 cr.) [\*MUS-3401, QE: Conducting I, meets this requirement.]

### Integrative Perspectives (3 additional credits)

Aesthetic Perspective: Fulfilled by major requirements above.

Social & Historical Perspective: Fulfilled by major requirements above.

Global Perspective: 3 credits needed; Music Education majors are highly encouraged to take MUS-3330, Worlds of Music.

Civic Perspective: Fulfilled by student teaching internship requirement within the major.

## Proficiencies, Juries, and Praxis Exam Schedule

## **First Year**

Jury: Spring only

## **Second Year**

Jury: Both fall and spring semesters

Piano Proficiency: End of spring semester as part of Keyboard Harmony course.

Praxis I Exam: Should be completed as soon as student has finished the Johnson math requirements (recommended spring of Year 2)

## **Third Year**

Jury: Both fall and spring semesters

## **Prior to Student Teaching**

All course requirements, recitals, pre-student teaching portfolio, and the Praxis II Exam must be completed. Additionally, Music Education majors must have a total earned GPA of 3.00 or higher, or have received certification of academic competence by the Provost or his/her designee.

## **Important:**

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Musical Theater (B.A.)**

The B.A. in musical theater will link already-existing programs in theater, music and dance, relying primarily on present resources in the Performing Arts Department and creating several new classes unique to the demands of singer/actor training, a market whose growth in the New England area has been quite sturdy in the past decade. The program will require 55 credits in theater and music, including up to 3 classes in dance and an internship. This degree brings theater, music and dance together in a collaboration designed to enhance the employment possibilities/potential of singer/actors and widen their career prospects as performers, training them to compete in the musical theater market.

## **Learning Outcomes for Musical Theater Majors**

1. Demonstrate fluency in all facets of theater/music including writing, speech, sight reading and performance.
2. Possess the verbal and writing skills to analyze, criticize and interpret both music and play script.
3. Master skills of acting, singing and dance both on and off the stage.
4. Articulate the role of musical theater and theater in creating and sustaining community and local culture.
5. Describe and apply knowledge of audience development, theater production and the economic sustainability of a theater company or service.

## **Theater Requirements (19 credits)**

- THA-1041 Introduction to Theater Arts 3 credits
- THA-2035 Costume Construction & Stage Makeup 3 credits

- THA-2121 Acting I 3 credits **AND**
- THA-2121L Acting I Lab 1 credits \*
- THA-2122 Acting II 3 credits
- THA-3123 Acting III 3 credits
- THA-4730 Seminar in Professional Preparation for the Actor 3 credits

*\*Students registering for THA-2121, Acting I, must also register for THA-2121L, Acting I Lab, for 1 credit.*

## Music Requirements (15 credits)

- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1120 Applied Music Lessons 0.5 credits **AND/OR**
- MUS-3240 Applied Music Lessons 1 credits (For a total of 8 credits) \*\*
- MUS-1120L Applied Music Lesson Lab 0 credits (Required for every semester of applied study; 8 semesters of enrollment required, more will be accrued if the student has subsequent semesters of applied study in voice.) \*\*
- MUS-1231 Music Theory I 3 credits
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (Four semesters of choral ensemble at .5 credits/semester for a total of 2 credits)

## Automatic enrollment in applied music lesson lab

\*\*Music majors are automatically enrolled in an MUS-1120L Applied Music Lesson Lab for 0 credits each semester that they are registered for Applied Music/Voice Lessons until they complete the requirement.

## Musical Theater Requirements (15 credits)

- MUS-2350 Music Theater Production 0 or 3 credits (6 credits) (take two times at 3 credits each)
- MUS-4010 Music Theater Production 0 or 3 credits (6 credits) (take two times at 3 credits each)
- MUS-3230 Survey of American Musical Theater 3 credits
- MUS-3260 Music Theater Workshop 3 credits (6 credits) (take two times at 3 credits each)

## Dance Requirements (minimum of 6 credits)

(6 credits minimum\* from the following courses, based on dance placement)

\*Through a combination of demonstrated proficiency in the freshman musical theater dance placement and dance course enrollment, musical theater majors must demonstrate fundamental skills in a minimum of three dance styles from the following: Jazz, Tap and Ballet or Modern Dance. A minimum of six credits is required in dance for the musical theater major; however, students with no previous dance experience may need up to 12 credits of dance instruction in order to demonstrate proficiency.

- DAN-1010 Fundamentals of Dance 3 credits

- DAN-1020 Fundamentals of Jazz Dance 3 credits
- DAN-1111 Modern Dance 3 credits
- DAN-2040 Beginning Tap Dance 2 credits
- DAN-2131 Ballet 3 credits
- DAN-3020 Intermediate Ballet: Technique & History 3 credits
- DAN-3112 Intermediate Modern Dance: Technique & History 3 credits
- DAN-3130 Jazz Dance 3 credits
- DAN-4130 Advanced Ballet/Modern Dance: Technique & History 3 credits

Total: 55 credits

- Students who do not pass the MUS-1231 Music Theory I and Keyboard Placement Exams/Hearings will need to complete MUS-1030 Music Fundamentals, and MUS-1050 Elementary Piano Class, prior to enrolling in the MUS-1231 Music Theory I core courses.
- It is highly recommended that musical theater students have fundamental keyboard skills to aid in learning vocal lines.
- Musical Theater majors are expected to audition for the spring musical production every year that they are enrolled as a musical theater major.

## Keyboard Proficiency Exam Requirement

The Keyboard Proficiency Exam is required of all Music, Music Education, and Musical Theater majors. All students must pass the specific requirements of the keyboard proficiency examination for their major. The exam is held during the final weeks of each semester on the same day as end-of-semester juries; students may sign up for the exam two weeks prior to that date and should contact their academic advisor for more information.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Outdoor Education (B.A.): Adventure Education & Wilderness Leadership concentration**

### Outdoor Education Programs at JSC

The Bachelor of Arts in Outdoor Education is an exciting offering within our diverse department. The Outdoor Education major includes courses from many different disciplines, including environmental science, biology, psychology, and business, as well as courses focused specifically on the techniques necessary to lead and teach people in the out-of-doors. Four concentrations are offered:

1. Adventure Education & Wilderness Leadership
2. Environmental Education
3. Outdoor Program Management & Administration
4. Therapeutic Wilderness & Adventure Programming

Our program's graduates can expect to find careers with organizations such as wilderness schools, adventure outfitters, outdoor guide services, wilderness or adventure therapy programs, ropes courses, indoor climbing centers, resorts, private schools with outdoor programming, year-round camps, environmental and nature education centers, and national, state, and local parks, just to name a few.

Prior to the required internship, students must complete OER-3010 with a grade of C- or better, have junior or senior standing and obtain a recommendation from the Outdoor Education faculty. Students should meet with their advisors early in their program for specific details regarding the internship process.

## Learning Outcomes

The B.A. in Outdoor Education seeks to produce graduates who can demonstrate:

- Knowledge of the historical and philosophical foundations of the field, human development, learning theories, experiential education, natural history and environmental issues;
- The ability to critically read, evaluate and synthesize literature in the field of outdoor education and carry out an original research project;
- Pedagogical skills and practical experience organizing, teaching and leading diverse populations through experiential, field-based learning opportunities;
- Knowledge of professional practices including program administration, program development, risk management, emergency procedures and awareness of industry standards, current issues and trends;
- Knowledge and skills specific to outdoor adventure pursuits, environmental education, therapeutic applications, and/or program management and administrative practices..

## Required Core Courses

- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2050 The Natural History of Vermont 3 credits **OR**
- BIO-2130 Natural History of the Yellowstone Plateau 3 credits
- OER-1000 Introduction to Outdoor Education 4 credits
- OER-3010 Learning in the Outdoors 4 credits \*
- OER-3020 Program Planning in Outdoor Education 3 credits
- OER-4900 Research in Outdoor Education 3 credits \*\*
- PSY-1010 Introduction to Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits
- OER-4810 Internship in Outdoor Education 6-12 credits (6-12 credits)

\* A grade of C- or higher is required in OER 3010.

\*\*PSY-2410, Research Methods in Psychology (3 cr.), may be substituted for Wilderness & Adventure Therapy students only.

## Adventure Education & Wilderness Concentration

### Required Concentration Courses

- OER-1061 Backpacking 1 credits
- OER-2060 Wilderness First Responder 4 credits
- OER-2062 Advanced Backpacking 2 credits
- OER-2140 Ropes Course Leadership 2 credits
- OER-3070 Adventure Education Theory & Practice 3 credits
- OER-4030 Wilderness Leadership Techniques 4 credits

### Instructor Course (take one course)

- OER-1165 Coastal Kayak Guide Training 2 credits **OR**
- OER-2050 Rock Climbing Instructor 2 credits **OR**
- OER-3090 Leave No Trace Master Educator 3 credits

### Outdoor Education Skills Courses (choose 4 for 2-7 credits):

- OER-1030 Outdoor Education Activities 0.5 credits (Fly-fishing)
- OER-1030 Outdoor Education Activities 0.5 credits (Cross-Country Skiing)
- OER-1030 Outdoor Education Activities 0.5 credits (Snowshoeing)
- OER-1030 Outdoor Education Activities 0.5 credits (Introduction to River Kayaking)
- OER-1131 Rock Climbing I 1 credits
- OER-2080 Advanced Rock Craft 2 credits
- OER-1170 Ice Climbing 1 credits
- OER-1070 Orienteering 1 credits
- OER-1161 Whitewater Kayaking 1 credits
- OER-1162 Coastal Kayaking 1 credits
- OER-3150 Winter Expedition 3 credits
- OER-4710 Special Topics in Outdoor Education & Recreation 3 credits (must be an activity-based course)
- OER-4830 Outdoor Education Teaching Assistant 1-4 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Outdoor Education (B.A.): Environmental Education concentration**

This program is for students pursuing careers helping children and adults learn about and explore their environment, understand what they can do to take care of it, and apply what they learn to global environmental issues. It program provides technical training in outdoor techniques and leadership in combination with cross-disciplinary study in education, psychology, biology and environmental science. **Graduates earn a B.A. in Outdoor Education with a concentration in Environmental Education.**

Students in this concentration will be prepared for employment in a variety of settings, including working at outdoor education, environmental and nature centers; as naturalists or interpreters in federal, state or local parks; conducting nature or environmentally-oriented activities for municipal or community recreation programs; as summer camp nature specialists; and as

school and college workshop leaders and curriculum consultants. Students can also pursue advanced degrees in outdoor education and environmental education.

## Outdoor Education Programs at JSC

The Bachelor of Arts in Outdoor Education is an exciting offering within our diverse department. The Outdoor Education major includes courses from many different disciplines, including environmental science, biology, psychology, and business, as well as courses focused specifically on the techniques necessary to lead and teach people in the out-of-doors. Four concentrations are offered:

1. Adventure Education & Wilderness Leadership
2. Environmental Education
3. Outdoor Program Management & Administration
4. Therapeutic Wilderness & Adventure Programming

Our program's graduates can expect to find careers with organizations such as wilderness schools, adventure outfitters, outdoor guide services, wilderness or adventure therapy programs, ropes courses, indoor climbing centers, resorts, private schools with outdoor programming, year-round camps, environmental and nature education centers, and national, state, and local parks, just to name a few.

Prior to the required internship, students must complete OER-3010 with a grade of C- or better, have junior or senior standing and obtain a recommendation from the Outdoor Education faculty. Students should meet with their advisors early in their program for specific details regarding the internship process.

## Learning Outcomes

The B.A. in Outdoor Education seeks to produce graduates who can demonstrate:

- Knowledge of the historical and philosophical foundations of the field, human development, learning theories, experiential education, natural history and environmental issues;
- The ability to critically read, evaluate and synthesize literature in the field of outdoor education and carry out an original research project;
- Pedagogical skills and practical experience organizing, teaching and leading diverse populations through experiential, field-based learning opportunities;
- Knowledge of professional practices including program administration, program development, risk management, emergency procedures and awareness of industry standards, current issues and trends;
- Knowledge and skills specific to outdoor adventure pursuits, environmental education, therapeutic applications, and/or program management and administrative practices..

## Required Core Courses

- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2050 The Natural History of Vermont 3 credits **OR**
- BIO-2130 Natural History of the Yellowstone Plateau 3 credits
- OER-1000 Introduction to Outdoor Education 4 credits
- OER-3010 Learning in the Outdoors 4 credits \*
- OER-3020 Program Planning in Outdoor Education 3 credits
- OER-4900 Research in Outdoor Education 3 credits \*\*
- PSY-1010 Introduction to Psychology 3 credits

- PSY-2070 Developmental Psychology 3 credits
- OER-4810 Internship in Outdoor Education 6-12 credits (6-12 credits)

\* A grade of C- or higher is required in OER 3010.

\*\*PSY-2410, Research Methods in Psychology (3 cr.), may be substituted for Wilderness & Adventure Therapy students only.

## Environmental Education Concentration

### Required Concentration Courses

- BIO-1210 Introduction to Biology 4 credits **OR**
- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-2340 Fundamentals of Ecology 4 credits
- ENV-1050 Introduction to Earth Science 4 credits
- ENV-3220 Environmental Interpretation 3 credits
- ENV-3230 National Parks & Wilderness Management 3 credits
- ENV-4010 Global Environmental Issues 3 credits

### Natural Science Field Course (choose 1):

- BIO-2145 Plant Biology 4 credits
- BIO-3110 Field Ornithology 3 credits
- BIO-3310 Wildlife Field Methods 4 credits
- GEY-3120 Field Geology 4 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Outdoor Education (B.A.): Outdoor Program Management & Administration concentration**

### Outdoor Education Programs at JSC

The Bachelor of Arts in Outdoor Education is an exciting offering within our diverse department. The Outdoor Education major includes courses from many different disciplines, including environmental science, biology, psychology, and business, as well as courses focused specifically on the techniques necessary to lead and teach people in the out-of-doors. Four concentrations are offered:

1. Adventure Education & Wilderness Leadership
2. Environmental Education
3. Outdoor Program Management & Administration
4. Therapeutic Wilderness & Adventure Programming

Our program's graduates can expect to find careers with organizations such as wilderness schools, adventure outfitters, outdoor guide services, wilderness or adventure therapy programs, ropes courses, indoor climbing centers, resorts, private schools with outdoor programming, year-round camps, environmental and nature education centers, and national, state, and local parks, just to name a few.

Prior to the required internship, students must complete OER-3010 with a grade of C- or better, have junior or senior standing and obtain a recommendation from the Outdoor Education faculty. Students should meet with their advisors early in their program for specific details regarding the internship process.

## Learning Outcomes

The B.A. in Outdoor Education seeks to produce graduates who can demonstrate:

- Knowledge of the historical and philosophical foundations of the field, human development, learning theories, experiential education, natural history and environmental issues;
- The ability to critically read, evaluate and synthesize literature in the field of outdoor education and carry out an original research project;
- Pedagogical skills and practical experience organizing, teaching and leading diverse populations through experiential, field-based learning opportunities;
- Knowledge of professional practices including program administration, program development, risk management, emergency procedures and awareness of industry standards, current issues and trends;
- Knowledge and skills specific to outdoor adventure pursuits, environmental education, therapeutic applications, and/or program management and administrative practices..

## Required Core Courses

- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2050 The Natural History of Vermont 3 credits **OR**
- BIO-2130 Natural History of the Yellowstone Plateau 3 credits
  
- OER-1000 Introduction to Outdoor Education 4 credits
- OER-3010 Learning in the Outdoors 4 credits \*
- OER-3020 Program Planning in Outdoor Education 3 credits
- OER-4900 Research in Outdoor Education 3 credits \*\*
- PSY-1010 Introduction to Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits
- OER-4810 Internship in Outdoor Education 6-12 credits (6-12 credits)

\* A grade of C- or higher is required in OER 3010.

\*\*PSY-2410, Research Methods in Psychology (3 cr.), may be substituted for Wilderness & Adventure Therapy students only.

## Outdoor Program Management & Administration Concentration

## Required Concentration Courses (minimum 24 credits)

- BUS-1340 Social Entrepreneurship 3 credits \*
- BUS-2210 Small Business Management 3 credits \*
- BUS-2230 Principles of Marketing 3 credits \*
  
- BUS-2410 Human Resource Management 3 credits **OR**
- BUS-3250 Organizational Behavior & Management 3 credits
  
- BUS-2280 Introduction to Business Ethics 3 credits **OR**
- POS-3050 Environmental Ethics & Politics 3 credits
  
- OER-2140 Ropes Course Leadership 2 credits
- OER-3070 Adventure Education Theory & Practice 3 credits

In addition to the above courses, students must complete two Outdoor Education Skills classes (1-6 credits) from the following list: Backpacking, Advanced Backpacking, Rock Climbing I, Advanced Rock Craft, River Kayaking, Whitewater Kayaking, Coastal Kayaking, Stand-Up Paddleboarding, Orienteering, Snowshoeing, Ice Climbing, Nordic & Backcountry Skiing, Fly Fishing.

## Additional Concentration Requirement (Select one course)

- ACC-2121 Financial Accounting 4 credits \*
- BUS-3110 Ski Area Management & Design 3 credits
- BUS-3131 Business Law I 3 credits \*
- BUS-3440 Ecotourism and Sustainability 3 credits
- CIS-2220 Website Design 3 credits

Total: 56 credits

### Note

Note: The above courses in the concentration with an asterisk (\*) complete the Certificate in Small Business Management.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## **Outdoor Education (B.A.): Therapeutic Wilderness & Adventure Programming concentration**

## Outdoor Education Programs at JSC

The Bachelor of Arts in Outdoor Education is an exciting offering within our diverse department. The Outdoor Education major includes courses from many different disciplines, including environmental science, biology, psychology, and business, as well as courses focused specifically on the techniques necessary to lead and teach people in the out-of-doors. Four concentrations are offered:

1. Adventure Education & Wilderness Leadership
2. Environmental Education
3. Outdoor Program Management & Administration
4. Therapeutic Wilderness & Adventure Programming

Our program's graduates can expect to find careers with organizations such as wilderness schools, adventure outfitters, outdoor guide services, wilderness or adventure therapy programs, ropes courses, indoor climbing centers, resorts, private schools with outdoor programming, year-round camps, environmental and nature education centers, and national, state, and local parks, just to name a few.

Prior to the required internship, students must complete OER-3010 with a grade of C- or better, have junior or senior standing and obtain a recommendation from the Outdoor Education faculty. Students should meet with their advisors early in their program for specific details regarding the internship process.

## Learning Outcomes

The B.A. in Outdoor Education seeks to produce graduates who can demonstrate:

- Knowledge of the historical and philosophical foundations of the field, human development, learning theories, experiential education, natural history and environmental issues;
- The ability to critically read, evaluate and synthesize literature in the field of outdoor education and carry out an original research project;
- Pedagogical skills and practical experience organizing, teaching and leading diverse populations through experiential, field-based learning opportunities;
- Knowledge of professional practices including program administration, program development, risk management, emergency procedures and awareness of industry standards, current issues and trends;
- Knowledge and skills specific to outdoor adventure pursuits, environmental education, therapeutic applications, and/or program management and administrative practices..

## Required Core Courses

- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2050 The Natural History of Vermont 3 credits **OR**
- BIO-2130 Natural History of the Yellowstone Plateau 3 credits
- OER-1000 Introduction to Outdoor Education 4 credits
- OER-3010 Learning in the Outdoors 4 credits \*
- OER-3020 Program Planning in Outdoor Education 3 credits
- OER-4900 Research in Outdoor Education 3 credits \*\*
- PSY-1010 Introduction to Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits

- OER-4810 Internship in Outdoor Education 6-12 credits (6-12 credits)

\* A grade of C- or higher is required in OER 3010.

\*\*PSY-2410, Research Methods in Psychology (3 cr.), may be substituted for Wilderness & Adventure Therapy students only.

## Therapeutic Wilderness & Adventure Programming Concentration

### Required Core Courses (Minimum 26 cr.)

- OER-1061 Backpacking 1 credits
- OER-2060 Wilderness First Responder 4 credits
- OER-2140 Ropes Course Leadership 2 credits
- OER-3070 Adventure Education Theory & Practice 3 credits
- PSY-2040 Social Psychology 3 credits
- PSY-3010 Theories of Personality 3 credits
- PSY-3065 Abnormal Behavior 3 credits
- PSY-3330 Psychology of Addictions 3 credits
- PSY-3345 The Psychology of Groups 3 credits

In addition to the above courses, students must complete two Outdoor Education Skills classes (1-6 credits) from the following list: Backpacking, Advanced Backpacking, Rock Climbing I, Advanced Rock Craft, River Kayaking, Whitewater Kayaking, Coastal Kayaking, Stand-Up Paddleboarding, Orienteering, Snowshoeing, Ice Climbing, Nordic & Backcountry Skiing, Fly Fishing.

Total: 58 credits

### Recommended Electives

- AHS-1010 Contemporary Health Issues 3 credits
- AHS-4025 Health Behavior: Change & Adherence 3 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- OER-1165 Coastal Kayak Guide Training 2 credits
- OER-2050 Rock Climbing Instructor 2 credits
- OER-2062 Advanced Backpacking 2 credits
- OER-3090 Leave No Trace Master Educator 3 credits
- OER-4030 Wilderness Leadership Techniques 4 credits
- PSY-4010 Biological Psychology 3 credits
- PSY-4151 Counseling 3 credits
- PSY-4330 Introduction to Clinical Skills 3 credits
- PSY-4340 Fundamentals of Community Mental Health 3 credits
- SOC-3080 Wellness & Alternative Medicine 3 credits
- WAM-3010 Living the Good Life 3 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Political Science (B.A.)

The B.A. in Political Science is designed to develop understanding of the theoretical and practical relationship between political culture and governmental structures at the four traditional levels of political organization: local, state, national and international. Students develop the ability to compare alternative systems and to understand the political process at various levels. Writing and research skills are also developed, especially in seminar and independent research courses. Graduates of the program are prepared for graduate and professional study and for positions of responsibility in public and civic organizations.

## Learning Outcomes

Graduates will:

1. Possess content knowledge of a broad array of political phenomenon, concepts, and theory as well as basic historical and geographic factors that influence political behavior.
2. Develop the ability to analyze and interpret the influence social, economic, cultural, and environmental variables have on political behavior and outputs.
3. Understand how individual and global cultures can impact political beliefs and actions.
4. Be able to comprehend, interpret, and apply scientific methodology to the study of political behavior.
5. Be able to apply critical thinking, limit bias, and explore all potential causal relations.
6. Successfully communicate, in oral and written form, his or her findings and interpretations, using proper documentations and scholarly conventions.

## Political Science Curriculum

Political science faculty strongly recommend a semester-long internship with such agencies or organizations as the Vermont General Assembly or Legislative Council, state and federal agencies, newspapers and wire services, U.S. Congress, international organizations, law offices, legal aid programs, public-interest groups, public affairs foundations, election campaigns, etc. Such experiences often lead directly to career opportunities in these fields. Internships enable students to meet many decision-makers and are particularly valuable when integrated with seminars in political science.

## Required Core Courses (18 credits)

- POS-1010 Introduction to Political Science 3 credits
- POS-1020 American Politics & Government 3 credits
- POS-2050 International Economics & Politics 3 credits
- POS-2110 State & Local Government 3 credits
  
- POS-3010 Survey of Western Political Thought 3 credits **OR**
- POS-3025 Research Design & Analysis 3 credits
  
- POS-4730 Senior Seminar in Political Science 3 credits

## Electives (21 credits)

Choose 2 of the following:

- POS-1030 Comparative Government 3 credits
- POS-1040 African-American History & Politics 3 credits
- POS-2010 Observation of the Legislative Process 3 credits
- POS-2040 International Relations 3 credits
- POS-2810 Internship in Political Science 1-12 credits

Choose 5 of the following:

- POS-3030 Contemporary Political Theory: Race, Class & Gender 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3050 Environmental Ethics & Politics 3 credits
- POS-3060 Vermont Politics 3 credits
- POS-3070 Terrorism, Religion & the Nation-State 3 credits
- POS-3130 Church & State Separation: The First Amendment to the U.S. Constitution 3 credits
- POS-3150 Campaigns & Elections 3 credits
- POS-3160 Modern Politics through Drama & Fiction 3 credits
- POS-3170 U.S. Constitutional Law 3 credits
- POS-3180 Politics in Film 3 credits
- POS-3210 Canadian Politics 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits
- POS-3230 Third World Politics 3 credits
- POS-3270 Revolutions, Transformed Economics & Social Change 3 credits
- POS-4010 American Foreign Policy 3 credits
- POS-4020 International Relations 3 credits
- POS-4810 Internship in Political Science 1-12 credits
  - HIS-2410 Latin American History & Culture, 3 credits (CSC course)
- HIS-3165 Vermont History 3 credits
- HIS-3312 Europe in the 20th Century 3 credits
- HIS-3351 English History to 1714 3 credits
- HIS-4010 History of the Middle East 3 credits

**Total: 37-39 credits**

## Secondary Teaching License in Social Studies

Students pursuing licensure endorsement to teach Social Studies in grades 7-12 must successfully complete either the B.A. in History or the B.A. in Political Science, as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Political Science (B.A.): Criminal Justice concentration

This program goes beyond the study of law and crime to explore complex issues of social justice related to crime, punishment and victimization, including race, class, gender and sexuality. Students explore current trends and controversies and gain cross-cultural competencies needed to work successfully with diverse populations. A distinguishing feature of this program is its emphasis on the growing field of restorative justice, a technique that involves working with victims as well as offenders.

**Students graduate with a B.A. in Political Science with a concentration in Criminal Justice.** The Political Science major itself develops in students an understanding of diversities and social structural arrangements among people affect the distribution of power and the ability of people to live meaningful, sustainable lives and co-exist in a fair and socially just world. (Note: Criminal Justice also is offered as a concentration in the B.A. in Anthropology & Sociology.)

The multidisciplinary concentration in criminal justice draws on JSC's rich liberal arts tradition and commitment to high-impact education -- "learning by doing" -- to explore the relationships of crime, law and social justice. It also cross-cultural competency, preparing students to communicate and work with those from a wide range of backgrounds and with disparate life experiences.

Supported by a network of community partner organizations, the program offers internships in the field of criminal justice, particularly in the arenas of restorative justice and victim advocacy as well as in border patrol and other areas of law enforcement. Students complete these internships in their junior or senior year along with a concurrent senior seminar.

A range of disciplines are brought to bear on criminal justice, including anthropology, political science, psychology and sociology. The program prepares student for a careers in law enforcement and criminal investigation, crime analysis, juvenile justice, victim advocacy, restorative justice and community development, social justice and public policy. A criminal justice background also prepares students to pursue careers in law, from working as paralegals and legal assistants to attending law school.

## Learning Outcomes

In addition to meeting the learning outcomes of the B.A. in Political Science, upon successful completion of the concentration in criminal justice, students should be able to:

1. Critically evaluate key theories about crime and criminal behavior.
2. Critically assess existing criminal justice systems with the aim of improving their condition and function.
3. Identify and assess alternative solutions to problems associated with existing models of crime control.
4. Develop and demonstrate sufficient self-awareness to understand the influence of personal biases and values in interacting with diverse groups.
5. Identify and analyze ways in which oppression, privilege, discrimination, and social and economic disadvantage contribute to inequalities and injustices within criminal justice systems.
6. Understand key issues and approaches in the field of criminal justice, including mental health, substance abuse, youth development, trauma-informed care, and results-based accountability.
7. Demonstrate familiarity with key skill sets in the field of criminal justice, including effective communication and conflict resolution and de-escalation.
8. Apply understandings of research methods and data collection techniques for conducting research in criminal justice.
9. Apply understandings of criminal justice policy and key controversies to field experiences.

## Political Science Curriculum

Political science faculty strongly recommend a semester-long internship with such agencies or organizations as the Vermont General Assembly or Legislative Council, state and federal agencies, newspapers and wire services, U.S. Congress, international organizations, law offices, legal aid programs, public-interest groups, public affairs foundations, election campaigns, etc. Such experiences often lead directly to career opportunities in these fields. Internships enable students to meet many decision-makers and are particularly valuable when integrated with seminars in political science.

## Required Core Courses (18 credits)

- POS-1010 Introduction to Political Science 3 credits
- POS-1020 American Politics & Government 3 credits
- POS-2050 International Economics & Politics 3 credits
- POS-2110 State & Local Government 3 credits
  
- POS-3010 Survey of Western Political Thought 3 credits **OR**
- POS-3025 Research Design & Analysis 3 credits
  
- POS-4730 Senior Seminar in Political Science 3 credits

## Electives (21 credits)

Choose 2 of the following:

- POS-1030 Comparative Government 3 credits
- POS-1040 African-American History & Politics 3 credits
- POS-2010 Observation of the Legislative Process 3 credits
- POS-2040 International Relations 3 credits
- POS-2810 Internship in Political Science 1-12 credits

Choose 5 of the following:

- POS-3030 Contemporary Political Theory: Race, Class & Gender 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3050 Environmental Ethics & Politics 3 credits
- POS-3060 Vermont Politics 3 credits
- POS-3070 Terrorism, Religion & the Nation-State 3 credits
- POS-3130 Church & State Separation: The First Amendment to the U.S. Constitution 3 credits
- POS-3150 Campaigns & Elections 3 credits
- POS-3160 Modern Politics through Drama & Fiction 3 credits
- POS-3170 U.S. Constitutional Law 3 credits
- POS-3180 Politics in Film 3 credits
- POS-3210 Canadian Politics 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits
- POS-3230 Third World Politics 3 credits
- POS-3270 Revolutions, Transformed Economics & Social Change 3 credits
- POS-4010 American Foreign Policy 3 credits

- POS-4020 International Relations 3 credits
- POS-4810 Internship in Political Science 1-12 credits
  - HIS-2410 Latin American History & Culture, 3 credits (CSC course)
- HIS-3165 Vermont History 3 credits
- HIS-3312 Europe in the 20th Century 3 credits
- HIS-3351 English History to 1714 3 credits
- HIS-4010 History of the Middle East 3 credits

## Criminal Justice Curriculum

*Note:* Criminal Justice requirements that meet requirements for the major are also applied toward the major.

### Required Core Courses (16 credits)

- CRJ-1010 Introduction to Criminal Justice 3 credits
- CRJ-1040 Criminal Justice Lecture Series: Careers in the Field 1 credits
- CRJ-4770 Criminal Justice Internship Seminar 1 credits
- CRJ-4810 Internship in Criminal Justice 1-12 credits (Internship must be a minimum of 3 credits)  
CRJ-4770 Senior Seminar 1 credit (pending approval)  
*Criminal Justice internships must be arranged the semester prior to the semester in which they occur, and they must be taken concurrently with the Senior Seminar.*
- POS-1010 Introduction to Political Science 3 credits **OR**
- POS-1020 American Politics & Government 3 credits
- ANT-1010 Introduction to Cultural Anthropology 3 credits **OR**
- SOC-1010 Introduction to Sociology 3 credits
- CRJ-4020 Criminal Justice: Who is "Criminal"? 3 credits **OR**
- PSY-3065 Abnormal Behavior 3 credits **OR**
- SOC-2040 Race/Ethnicity, Class & Gender 3 credits **OR**
- SOC-3170 Power, Politics & Inequality 3 credits

### Electives (take 12 credits)

- CRJ-2150 Community & Restorative Justice 3 credits
- CRJ-2230 Introduction to Criminal Law 3 credits
- CRJ-4020 Criminal Justice: Who is "Criminal"? 3 credits
- CRJ-4730 Topical Seminar in Criminal Justice 1-3 credits
- PSY-4035 Forensic Psychology 3 credits
- PHI-1040 Introduction to Ethics 3 credits
- POS-1040 African-American History & Politics 3 credits
- POS-2110 State & Local Government 3 credits

- POS-3040 The Politics of Gender 3 credits
- POS-3070 Terrorism, Religion & the Nation-State 3 credits
- POS-3170 U.S. Constitutional Law 3 credits
- POS-3210 Canadian Politics 3 credits
- PSY-3065 Abnormal Behavior 3 credits
- SOC-2040 Race/Ethnicity, Class & Gender 3 credits
- SOC-3050 Gender & Society 3 credits
- SOC-3170 Power, Politics & Inequality 3 credits
- SOC-4010 Family Violence 3 credits
- SSC-1050 FYS: A Call to Action 3 credits

Total: 67 credits

## Secondary Teaching License in Social Studies

Students pursuing licensure endorsement to teach Social Studies in grades 7-12 must successfully complete either the B.A. in History or the B.A. in Political Science, as well as specific teacher-education coursework and requirements. Please refer to the Secondary Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Professional Studies (B.A.)

The B.A. in Professional Studies is available to students who are completing their bachelor's degree through JSC Online or Johnson State College's community-based Distance Learning Programs (EDP). This major allows adult learners to design a plan of study around a particular career interest while weaving together the threads of their prior learning into a coherent degree program. Upon declaring an area of special emphasis, students work with their advisor to develop a degree plan that meets their objectives as well as the college's general education and other requirements for a bachelor's degree.

### Requirements

- For students matriculating through JSC Online, no college credits are required before admittance into the major.
- For students matriculating through the community-based External Degree Program, 60 college credits are required before admittance into the major.
- Completion of the JSC Online/EDP General Education Curriculum
- During the student's first semester, development and submission of a degree plan, including a narrative that declares a focus of study and demonstrates integration of prior learning and proposed courses
- Completion of at least 30 credits in a focus area of study, including INT 4950, Senior Seminar in Professional Studies
- Completion of at least 15 upper-level credits (3000- or 4000-level) within the 30-credit focus area

*Note: It is not possible to do a minor along with the major in professional studies unless the credits for the minor are in addition to the 120 credits required for a bachelor's degree.*

# Learning Outcomes for Professional Studies Majors

## Students will be able to:

- Plan a coherent, individualized program of study with a clear focus and in keeping with their personal goals.
- Demonstrate bachelor's-level knowledge in one or more fields of interest.
- Demonstrate connections between theoretical learning and practical experience in relation to the field of interest.
- Demonstrate an ability to reflect upon and synthesize key aspects of the learning experience in the program.

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Psychology (B.A.)

### Psychology Programs at JSC

Students in the B.A. in Psychology program explore a wide range of theories concerning human behavior, development, thought, emotion, learning, intelligence, personality, group dynamics and abnormal behavior. Through coursework, fieldwork and research opportunities, students apply the knowledge gained in class to the real world and are encouraged to use what they learn toward understanding themselves and their relationships. Students have the opportunity to work as research assistants during the school year and in the summer. An internship is required. Elective options help students explore career possibilities, such as working with the chronically mentally ill, with children and families, and in the areas of organizational psychology, addictions, art therapy, forensic psychology and more. However, the study of psychology provides excellent preparation for careers not only in psychology, but in any field in which an understanding of human behavior is useful.

## Learning Outcomes

The B.A. in Psychology is designed to produce students who graduate with a strong understanding the field of psychology, how it relates to interpersonal communication and behavior, and the practical application of this knowledge and skill set.

### Psychology Core Curriculum

- PSY-1010 Introduction to Psychology 3 credits
- PSY-1035 The Psychology Major 1 credits
- PSY-2040 Social Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits
- PSY-2410 Research Methods in Psychology 3 credits
- PSY-3010 Theories of Personality 3 credits
- PSY-3065 Abnormal Behavior 3 credits
- PSY-3125 The Evolution of Psychology 3 credits
- PSY-4010 Biological Psychology 3 credits
- PSY-4770 Senior Seminar in Psychology 1 credits
- PSY-4810 Internship in Psychology 1-12 credits \*

- MAT-2030 Probability & Statistics 3 credits

*\* Psychology internships must be arranged the semester prior to which they are to occur and must be included in the plan of study. The required internship must be taken concurrently with the Senior Seminar. Students completing the Health & Sport Psychology concentration must complete their internship in an area/setting relevant to health and sport psychology.*

## Psychology Electives (choose 15 credits)

- PSY-3030 Organizational Psychology 3 credits
- PSY-3230 Psychology of Gender 3 credits
- PSY-3250 Multicultural Psychology 3 credits
- PSY-3330 Psychology of Addictions 3 credits
- PSY-3345 The Psychology of Groups 3 credits
- PSY-4090 Controversial Issues in Psychology 3 credits
- PSY-4330 Introduction to Clinical Skills 3 credits
- PSY-4340 Fundamentals of Community Mental Health 3 credits
- PSY-4760 Topical Seminar in Psychology 3 credits \*
- PSY-4810 Internship in Psychology 1-12 credits
- PSY-4910 Independent Study in Psychology 1-12 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- ANT-3130 Culture & Personality 3 credits
- ANT-4010 Anthropology of Death 3 credits
- BIO-3160 Animal Behavior 4 credits
- SOC-3060 Sexuality & Intimacy 3 credits
- SOC-4010 Family Violence 3 credits

*\* Different topics rotate through the course; each may be taken for elective credit toward the major.*

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Psychology (B.A.): Health & Sport Psychology concentration

This program explores how psychology can be used to improve motivation and performance, how physical activity improves mental health and overall well-being, and how stress and other psychological factors affect health and wellness. Students may engage in original research projects in collaboration with faculty and have the opportunity to assist with ongoing research into biofeedback as a tool for exercise motivation. An internship in an area/setting relevant to health and sport psychology is required. **Graduates earn a B.A. in Psychology with a concentration in Health & Sport Psychology.**

## Psychology Programs at JSC

Students in the B.A. in Psychology program explore a wide range of theories concerning human behavior, development, thought, emotion, learning, intelligence, personality, group dynamics and abnormal behavior. Through coursework, fieldwork and

research opportunities, students apply the knowledge gained in class to the real world and are encouraged to use what they learn toward understanding themselves and their relationships. Students have the opportunity to work as research assistants during the school year and in the summer. An internship is required. Elective options help students explore career possibilities, such as working with the chronically mentally ill, with children and families, and in the areas of organizational psychology, addictions, art therapy, forensic psychology and more. However, the study of psychology provides excellent preparation for careers not only in psychology, but in any field in which an understanding of human behavior is useful.

## Learning Outcomes

The B.A. in Psychology is designed to produce students who graduate with a strong understanding the field of psychology, how it relates to interpersonal communication and behavior, and the practical application of this knowledge and skill set.

## Psychology Core Curriculum

- PSY-1010 Introduction to Psychology 3 credits
- PSY-1035 The Psychology Major 1 credits
- PSY-2040 Social Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits
- PSY-2410 Research Methods in Psychology 3 credits
- PSY-3010 Theories of Personality 3 credits
- PSY-3065 Abnormal Behavior 3 credits
- PSY-3125 The Evolution of Psychology 3 credits
- PSY-4010 Biological Psychology 3 credits
- PSY-4770 Senior Seminar in Psychology 1 credits
- PSY-4810 Internship in Psychology 1-12 credits \*
- MAT-2030 Probability & Statistics 3 credits

*\* Psychology internships must be arranged the semester prior to which they are to occur and must be included in the plan of study. The required internship must be taken concurrently with the Senior Seminar. Students completing the Health & Sport Psychology concentration must complete their internship in an area/setting relevant to health and sport psychology.*

## Health & Sport Psychology Curriculum (15-16 credits)

In addition to the 11 core psychology courses, students completing the concentration in Health & Sport Psychology must complete the following courses, which apply toward the major's electives requirements as well.

- AHS-4025 Health Behavior: Change & Adherence 3 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- AHS-4110 Psychophysiology of Stress 3 credits

## Choose 2 of the following:

- AHS-1010 Contemporary Health Issues 3 credits
- AHS-3120 Kinesiology 3 credits
- AHS-3230 Physiology of Exercise 4 credits

- BIO-3180 Nutrition 3 credits
- SOC-3080 Wellness & Alternative Medicine 3 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Psychology (B.A.): Pre-Professional Counseling concentration

The B.A. in Psychology with a concentration in Pre-Professional Counseling is designed to provide psychology majors with basic knowledge and a foundational set of skills needed for success in post-baccalaureate training in counseling-related disciplines. In addition, it prepares students for the required capstone internship experience needed to work in clinical settings, and it incorporates career exploration. This concentration does not provide direct route to a job as a "counselor" or to admissions in JSC's graduate counseling program; rather, it provides students who wish to pursue a career in mental health-related fields with a tangible path to follow in the psychology major. **Students graduate with a B.A.in Psychology with a concentration in Pre-Professional Counseling.**

## Psychology Programs at JSC

Students in the B.A. in Psychology program explore a wide range of theories concerning human behavior, development, thought, emotion, learning, intelligence, personality, group dynamics and abnormal behavior. Through coursework, fieldwork and research opportunities, students apply the knowledge gained in class to the real world and are encouraged to use what they learn toward understanding themselves and their relationships. Students have the opportunity to work as research assistants during the school year and in the summer. An internship is required. Elective options help students explore career possibilities, such as working with the chronically mentally ill, with children and families, and in the areas of organizational psychology, addictions, art therapy, forensic psychology and more. However, the study of psychology provides excellent preparation for careers not only in psychology, but in any field in which an understanding of human behavior is useful.

## Learning Outcomes

The B.A. in Psychology is designed to produce students who graduate with a strong understanding the field of psychology, how it relates to interpersonal communication and behavior, and the practical application of this knowledge and skill set.

## Psychology Core Curriculum

- PSY-1010 Introduction to Psychology 3 credits
- PSY-1035 The Psychology Major 1 credits
- PSY-2040 Social Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits
- PSY-2410 Research Methods in Psychology 3 credits
- PSY-3010 Theories of Personality 3 credits
- PSY-3065 Abnormal Behavior 3 credits
- PSY-3125 The Evolution of Psychology 3 credits
- PSY-4010 Biological Psychology 3 credits
- PSY-4770 Senior Seminar in Psychology 1 credits

- PSY-4810 Internship in Psychology 1-12 credits \*
- MAT-2030 Probability & Statistics 3 credits

*\* Psychology internships must be arranged the semester prior to which they are to occur and must be included in the plan of study. The required internship must be taken concurrently with the Senior Seminar. Students completing the Health & Sport Psychology concentration must complete their internship in an area/setting relevant to health and sport psychology.*

## Pre-Professional Counseling Curriculum (15 credits)

In addition to the 11 core psychology courses, students completing the concentration in Pre-Professional Counseling must complete the following courses, which apply toward the major's electives requirement as well.

- PSY-3330 Psychology of Addictions 3 credits
- PSY-3345 The Psychology of Groups 3 credits
- PSY-4330 Introduction to Clinical Skills 3 credits
- PSY-4340 Fundamentals of Community Mental Health 3 credits

## Take one of the following (3 credits)

- PSY-3230 Psychology of Gender 3 credits
- PSY-3250 Multicultural Psychology 3 credits
- SOC-4010 Family Violence 3 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Studio Arts (B.F.A.)

The BFA in Studio Arts degree offers a solid background in traditional studio media while at the same time entering the latest in digital art technology. Students get a firm foundation in drawing, painting, sculpture, digital media and art history, with additional electives in photography, printmaking and ceramics. Students go on to create their own self-designed concentration. Admission to the program (generally in the sophomore or junior year) must be followed by a minimum of three semesters of studio work before the thesis exhibition. A student is admitted into the program only upon recommendation by the studio arts faculty and approval by the chairperson, following a successful portfolio review. All majors must participate in the monthly BFA critiques held in the Visual Arts Center Gallery. Each candidate for the BFA must present an exhibition and gallery talk during the final year of study. This exhibit is prepared under the guidance and supervision of the art faculty and must demonstrate proficiency in a chosen area of concentration. Once admitted into the BFA program via their BFA review, students must achieve grades of B- or higher in all ART and ARH courses.

## Learning Outcomes for Studio Arts Majors

**In addition to the outcomes for the B.A. in art, students with a B.F.A. in studio arts should also be able to:**

1. Be familiar with the professional art world, from the perspective of career options, including exhibition venues, graduate school and grant opportunities.
2. Assemble a professional portfolio.
3. Understand the mechanics of setting up a safe and functioning studio.
4. Know how to do a professional exhibition of their art, write about their art and speak about their art at a public event.

## Studio Arts Requirements

### Required Courses

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-1140 Design I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits

Subtotal: 21 credits

### Introductory Studio Electives

(Select two courses)

- ART-1231 Ceramics I 3 credits
- ART-2150 Jewelry & Metalsmithing 3 credits
- ART-2301 Photography I 3 credits
- ART-2410 Introduction to Printmaking 3 credits

Subtotal: 6 credits

### Advanced Art History Electives

(Select two courses)

- ARH-3015 Greek & Roman Art 3 credits
- ARH-3020 Art of the Renaissance 3 credits
- ARH-3060 Twentieth Century Art 3 credits
- ARH-3110 The Spiritual in Non-Western Art 3 credits
- ARH-3120 Art Criticism 3 credits
- ARH-3130 The History of Photography 3 credits
- ARH-3140 African Art 3 credits
- ARH-3150 Art of the Human Body 3 credits

- ARH-3210 Women in Art 3 credits
- ARH-4710 Special Topics in Art History 3 credits

Subtotal: 6 credits

## Advanced Studio Electives

(Select 6 courses)

(All advanced studio courses may be repeated for credit. See below.)

- ART-3031 Life Drawing 3 credits
- ART-3032 Advanced Drawing 3 credits
- ART-3040 Landscape Painting 3 credits
- ART-3222 Ceramics II 3 credits
- ART-3314 Advanced Printmaking 3 credits
- ART-3320 Monoprints 3 credits
- ART-4020 Advanced Digital Media 3 credits
- ART-4040 Advanced Photography 3 credits
- ART-4050 Advanced Painting 3 credits
- ART-4060 Advanced Digital: Graphic Design 3 credits
- ART-4070 Advanced Digital: Web Design for Artists 3 credits
- ART-4110 Visual Art & Performance 3 credits
- ART-4130 Advanced Sculpture 3 credits
- ART-4710 Special Topics in Art 3 credits

Subtotal: 18 credits

## Required Capstone Courses:

- ART-4120 B.F.A. Project & Exhibit 3 credits
- ARH-4720 Seminar in Contemporary Art Issues 3 credits
- ART-4730 B.F.A. Seminar 3 credits

Subtotal: 9 credits

Total: 60 credits

- *Students may take the same Advanced Studio course more than once, but no more than twice with the SAME professor unless given special permission by the department chair.*
- *Grades for BFA Thesis Exhibition will be determined by the thesis advisor in consultation with the full department.*

- *Once admitted into the BFA program via their BFA Review, students must achieve grades of B- or higher in all ART and ARH courses.*

## Art Education (PreK-12) Teaching Endorsement

Students pursuing a license to teach art in grades PreK-12 must complete either the B.A. in Art or the B.F.A. in Studio Arts as well as specific teacher-education coursework and requirements. Please refer to the Unified Arts Teacher License Endorsement section for details.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Technical Theater (A.A.)

This career-oriented program includes course work in technical theater skills (stagecraft, lighting and design, music and audio engineering), studio and performing arts, and general management; an internship is required.

## Learning Outcomes for Technical Theater Majors

### Competency #1: Awareness of and Competency in 21st Century Literacies

Students will:

1. Be able to produce an electronic portfolio of their learning journey, specifically focused on the degree program, in hopes it will become a lifelong process.
2. Demonstrate creativity and collaboration.
3. Expand their global awareness and exposure to diversity and communities.
4. Be able to use information and computer technology.
5. Have an increased civic and economic awareness.
6. Demonstrate basic quantitative reasoning and skills, especially geospatial literacy.
7. Have opportunities to develop leadership.
8. Develop their personal learning network.
9. Be employable in a 21st-century work environment.
10. Be aware of the environmental implications of their discipline.

### Competency #2: General Backstage Knowledge and Aptitude

Students will:

1. Demonstrate knowledge of stage etiquette, correct communication and nomenclature.
2. Demonstrate safety and hazard awareness.
3. Understand the organization structure of the theater, related job descriptions, and fulfilling their position(s) within.
4. Consistently exhibit professional attitude, attendance and behavior.
5. Students will collaborate and communicate productively with the crew.

## **Competency #3: Basic Stage Carpentry Skills**

Students will:

1. Demonstrate knowledge of the fly system: loading, mechanics, safety and flying.
2. Understand sight lines, trims, proper handling of masking and drops.
3. Understand basic rigging: knots, shackles, slings, wire clamps, etc.
4. Understand basic set assembly: basic tools and safety, flats and platform, construction, jacks, pipe structures, etc.
5. Load-in, set-up and load-out road shows of all types.
6. Collaborate and communicate productively with a diversity of visions.

## **Competency #4: Basic Knowledge of Stage Lighting and Set Design and Implementation for Theater, Music and Dance**

Students will:

1. Analyze a script, present a storyboard or creative interpretation and concept of the design.
2. Draft a lighting plot, with all related paper work: patch, instrument schedule, cut list, focus chart, etc.
3. Understand WYSIWYG and Emphasis software.
4. Operate, design with and understand intelligent fixtures and other DMX accessories.
5. Understand stage electrics: safety, loads, instruments, maintenance, read, hang, circuit, focus, color and trouble shoot a plot.
6. Demonstrate basic board skills: load a plot, patch, record Q's, Subs and operate.
7. Design a show: document collaboration from concept to actualization.

## **Competency #5: Basic Knowledge of Sound Systems, Be Able to Set Up, Understand Components, Operate for Theater, Music and Dance**

Students will:

1. Understand and use Digital Performer software and other Audio programs.
2. Have a basic understanding of sound theory including EQ, decibels, frequencies, etc.
3. Understand basic system set-ups: Dabden, Performance Space and Andy Shapiro Recording Studio, including: power, tie-ins, FOH, Monitors, Amps, crossover and drive rack configurations.
4. Design sound plots with speaker and mic placement, theory and practice, in each genre.
5. Mix live and for recording when possible for all genres: rock, classical, jazz, folk, pop, theater and musical theater.
6. Be able to set up headsets, hard of hearing systems, lectures, etc., independently.
7. Load-in, set-up and load-out different road shows.
8. Collaborate and communicate productively with a diversity of visitors.

## **Required Courses**

- THA-1041 Introduction to Theater Arts 3 credits
- THA-1111 Stagecraft 3 credits
- THA-2020 Theater Lab 3 credits (12 credits) (4 times; 2 upper-level, 2 lower-level)
- THA-2810 Internship in Theater 1-12 credits (6 credits)

- THA-3130 Introduction to Design: Costume, Scenic, and Stage Lighting 3 credits

## Career Concentration Component

This component permits students to customize and focus their studies. Students must complete all course work listed within at least one of the following clusters and must complete 12 credits in all:

### Performing Arts

(Take 3 of the following courses)

- THA-1040 Interpreting Contemporary Dramatic Literature 3 credits
- THA-2035 Costume Construction & Stage Makeup 3 credits
  
- THA-2121 Acting I 3 credits **AND**
- THA-2121L Acting I Lab 1 credits \*

### Business Management

- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2410 Human Resource Management 3 credits

### Computer Information Systems

- CIS-2220 Website Design 3 credits
- CIS-3040 Database 3 credits

### Music & Audio Technology

- MUS-2160 Introduction to Technology in Music 2 credits (3 credits)
- MUS-2231 Studio Recording I 3 credits
- MUS-3272 Studio Recording II 3 credits

### Fine & Studio Arts

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-1140 Design I 3 credits

Total: 43 credits

*\*Students registering for THA-2121 Acting I must also register for the THA-2121L Acting I Lab for 1 credit.*

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Theater & Drama (B.A.)

The B.A. in Theater and Drama is designed to serve students who aspire to become theater performers, teachers, theater technicians and managers or those who wish simply to gain a broader knowledge and understanding of themselves and the world around them as part of a strong liberal arts education. It also prepares students for graduate work.

## Learning Outcomes for Theater & Drama Majors

1. Students will articulate their grasp of the many facets of theater, including its history, literature and performance, through writing, speech and their own performance.
2. Students will acquire the verbal and writing skills necessary to master the processes of analysis, criticism and interpretation unique to theater and, yet, interdisciplinary as well.
3. Students will develop their skills in acting, directing, design and management both on and offstage and in the classroom, making the link between the "page" and the "stage."
4. Students will be prepared to succeed in the professional world of theater, in graduate school, teaching or working in community settings.
5. Students will collaborate with fellow students and faculty in developing their own levels of focus, discipline and responsibility within a creative environment.

## Theater & Drama Requirements

### Required Courses

- THA-1040 Interpreting Contemporary Dramatic Literature 3 credits
- THA-1041 Introduction to Theater Arts 3 credits
- THA-2121 Acting I 3 credits
- THA-2121L Acting I Lab 1 credits \*

Subtotal: 10 credits

*\*Students registering for THA-2121 Acting I must also register for the THA-2121L Acting I Lab for 1 credit.*

### Historical & Literary Studies

- THA-3010 Shakespeare: On the Stage & On the Page 3 credits
- THA-3110 Dramatic Literature: Classical/Modern 3 credits
- THA-3130 Introduction to Design: Costume, Scenic, and Stage Lighting 3 credits
- THA-3140 Theater History 3 credits

Subtotal: 12 credits

## Production & Performance Skills

- THA-1111 Stagecraft 3 credits
- THA-2122 Acting II 3 credits
- THA-3123 Acting III 3 credits
- THA-3150 Introduction to Stage Management 3 credits
- THA-3210 Introduction to Directing 4 credits

Subtotal: 16 credits

## Elective

(select 1 course from the following)

- DAN-2030 Improvisation/Composition: Intermediate/Advanced Level 4 credits
- DAN-3030 Improvisation/Composition: Intermediate/Advanced Level 4 credits
- DAN-3010 The Renaissance Spirit 3 credits
- THA-2035 Costume Construction & Stage Makeup 3 credits
- THA-3030 Theater for Young Audiences 3 credits
- THA-3040 Improvisation for Actors 3 credits
- THA-3123 Acting III 3 credits

Subtotal: 3-4 credits

## Laboratory Experiences

- THA-2040 Performance & Production Lab 0 or 3 credits **OR**
- THA-4010 Performance & Production Lab 0 or 3 credits

Subtotal: 3 credits

## Capstone Courses

- THA-4720 Senior Project in Theater 3 credits \*\*
- THA-4730 Seminar in Professional Preparation for the Actor 3 credits

Subtotal: 6 credits

Total: 50-51 credits

*\*\* If students elect to direct their own theater production as their senior project, THA-3150 Introduction to Stage Management, and THA-3210 Introduction to Directing, will be pre-requisites for their senior project.*

## Theater Arts Education (PreK-12) Teaching Endorsement

Students pursuing teaching endorsement in theater arts education must complete the B.A. in Theater & Drama, additional teacher education core program requirements, unified arts education program coursework and unified arts education endorsement-specific coursework. Please refer to the Education Department section of this catalog for specific requirements.

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Wellness & Alternative Medicine (B.S.)

Launched in 2000 and updated in spring 2014 to reflect advances in medical knowledge and contemporary practice, the B.S. degree in Wellness & Alternative Medicine at JSC is based on the scientific protocols set by the National Institutes of Health's National Center for Complementary & Alternative Medicine and Bastyr University's Naturopathic Medical School program in Seattle, Wash.

An interdisciplinary collaboration between JSC's Behavioral Sciences and Environmental & Health Sciences departments, the program employs societal, cultural, biochemical and global frameworks to investigate the history, principles and scientific evidence for the safety and effectiveness of diverse modalities to heal disease and to create wellness. It provides the scientific knowledge and practical skills needed to make informed healthcare decisions and lifestyle choices and to prepare for careers as state-of-the-art healthcare professionals, veterinarians and doctors.

Students study conventional, allopathic medicine in the U.S. as well as alternative medical models from around the world. On-campus and EDP students may elect to co-enroll in approved certification programs to become massage therapists, yoga instructors, reiki masters and Ayurvedic consultants. (This option is not available to students enrolled in this program through JSC Online.) Graduates are prepared for initial positions in the wellness and fitness industry, hospital employee-assistance programs, social-assistance programs, the diet and supplements industry and as assistants to alternative medical practitioners. Many graduates go on to graduate and medical schools to become physicians, nurses, chiropractors, naturopathic physicians, Chinese medical doctors, ayurvedic physicians and homeopathic doctors.

The curriculum for this program was reviewed in 2012 by Dr. James S. Gordon, director of the Center for Mind-Body Medicine Program at Georgetown University, former chair of the White House Commission on Complementary & Alternative Medicine and a member of the Advisory Council for the NIH National Center for Complimentary & Alternative Medicine (NCCAM), and in 2004 by Dr. Joseph Jacobs, former director of NCCAM. Their comments and suggestions have guided the curriculum that takes effect in fall 2015.

# Learning Outcomes for Wellness & Alternative Medicine Majors

1. Students will demonstrate interdisciplinary knowledge of the behavioral and biological evolution, principles and scientific evidence for the healing claims of conventional allopathic medicine and of diverse multicultural alternative health care systems.
2. Students will develop integrative critical thinking and investigative and evaluative skills for making optimal health care choices through scientific comparison of healing and wellness claims of diverse health care models.
3. Students will demonstrate their competency as multilingual integrative health care translators who are fluent in the concepts, principles and integration of multicultural models of health care and who assist professionals in the comparison of diverse sources of evidence for healing claims.
4. Students will prepare for alternative and allopathic medical careers as integrative physicians, nurses, nurse practitioners, Chinese medical doctors, naturopaths, chiropractors, massage therapists, health research scientists, epidemiologists and health policy planners.

## Required Courses (49 credits)

### Core Courses

- AHS-1010 Contemporary Health Issues 3 credits
  - BIO-2011 Human Anatomy & Physiology I 4 credits
  - BIO-2012 Human Anatomy & Physiology II 4 credits
  - SOC-1040 Integrative Health & Professional Series 1 credits
  - SOC-3080 Wellness & Alternative Medicine 3 credits
  - SOC-3230 Alternative Medicine, Science & Disease 3 credits
  - SOC-4740 Senior Integrative Health Care Seminar 1 credits
  - WAM-2030 Wellness Lifestyle & Career Seminar 1 credits
- 
- AHS-4810 Internship in Allied Health Science 1-12 credits (Must be at least 1 credit)  
**OR**
  - ANT-4810 Internship in Anthropology 1-12 credits (Must be at least 1 credit)  
**OR**
  - SOC-4810 Internship in Sociology 1-12 credits (Must be at least 1 credit)  
**OR**
  - WAM-4810 Internship in Wellness & Alternative Medicine 1-12 credits (Must be at least 1 credit)

## Alternative Health Systems & Mind-Body Medicine

### Choose 8 credits:

- ANT-3140 Yoga and Ayurveda: Science & Culture 3 credits
- WAM-2010 Native American Healing - The Lakota & Shemanic Traditions 1 credits
- WAM-2020 Chinese Medicine & Acupuncture I 1 credits
- WAM-2040 Introduction to Meditation 1 credits
- WAM-2060 Naturopathic Medicine 1 credits

- WAM-2070 Massage & Bodywork 1 credits
- WAM-2080 Homeopathy I 1 credits
- WAM-2050 Herbs: The Medicine Garden 1 credits
- WAM-3020 Chinese Medicine & Acupuncture II 3 credits
- WAM-3050 Herbalism, Wellness & Healing 3 credits
- WAM-3040 Mindfulness Meditation 3 credits
- WAM-3070 Massage, Science & Wellness 3 credits
- WAM-3080 Homeopathy II 3 credits

## Biology of Life

**Choose one of the following:**

- BIO-1210 Introduction to Biology 4 credits
- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits

## Chemistry

**Choose one of the following:**

- CHE-1031 General Chemistry I 4 credits
- CHE-1055 General Chemistry, Organic Chemistry & Biochemistry 4 credits

## Drugs, Herbs & Pharmacology

**Choose one of the following:**

- SOC-2050 Drugs, Herbs & Society 3 credits
- AHS-3050 Introduction to Pharmacology 3 credits
- WAM-3030 Applied Herbal Pharmacology 3 credits

## Healthcare & Healing Around the World

**Choose one of the following:**

- ANT-4020 Multicultural Health, Illness & Healing 3 credits
- SOC-4030 Global Health, Diversity & Policy 3 credits
- WAM-3060 Healing All Wounds: Global Humanitarian Aid and Warzone Medicine 3 credits

## Nutrition: The Biochemistry & Eco-Politics of Food and Diet

**Choose one of the following:**

- BIO-3180 Nutrition 3 credits
- SOC-3240 Nutrition, Food & Society 3 credits
- WAM-3025 Epigenetics: Diet, Lifestyle & Environment 3 credits

## Stress: Biopsychological Response & Wellness Lifestyle Choices

Choose one of the following:

- AHS-4110 Psychophysiology of Stress 3 credits
- AHS-4025 Health Behavior: Change & Adherence 3 credits
- WAM-3010 Living the Good Life 3 credits

## Required & Recommended Electives for Graduate Study in Medicine

Students who intend to pursue graduate study to prepare for clinical medical careers (e.g., physician, nurse practitioner, midwife, physician assistant, nurse, naturopathic doctor, chiropractor, Chinese medical doctor) should take the following courses *and* check with their future post-graduate school to ensure they will meet all undergraduate requirements in order to apply for admission.

### Required Electives

- CHE-1032 General Chemistry II 4 credits
- CHE-3111 Organic Chemistry I 4 credits
- CHE-3112 Organic Chemistry II 4 credits
- PHY-1041 Physics I 4 credits
- PHY-1042 Physics II 4 credits
- PSY-2070 Developmental Psychology 3 credits

### Recommended Electives

- BIO-3130 Cellular Biology: A Molecular Approach 4 credits
- BIO-3140 Microbiology 4 credits
- BIO-3220 Genetics 4 credits
- MAT-1531 Calculus I 4 credits
- MAT-2030 Probability & Statistics 3 credits

### Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Teaching Licensure Programs

# Secondary Teacher License Endorsement

Johnson State College offers Secondary Teacher Education Programs that prepare students to teach in their area of endorsement - **English, mathematics, science or social studies** -- to students in grades 7-12. Graduates who successfully complete one of these programs become candidates for a Level I Professional Educator's License issued by the Vermont Agency of Education. This license is required in order to work as a public school teacher in Vermont; it also is recognized and accepted by more than 40 other states, districts and territories.

All students seeking Secondary Teacher Licensure Endorsement must:

- Successfully complete all Required Teacher Education Core Courses;
- Successfully complete the Required Secondary Education Core Courses ;
- Select one of the four Secondary Education Endorsement Areas and successfully complete an approved major for that endorsement -- including all requirements for the bachelor's degree and the General Education and Graduation Requirements -- with a cumulative 3.0 GPA or better and a 3.0 GPA in the major; and
- Successfully complete the Required Content-Area Courses for their chosen area of endorsement.

**With careful planning, these requirements can be met for most programs within a four-year plan of study.** Most courses must be taken in a specific order; students should check advisement forms, program evaluations and prerequisites for details. Students must earn a B- or better in all courses marked with an asterisk (\*). Each Teacher Education Workshop (TEW) is graded as Pass/No Pass.

Theoretical Framework & Learning Pursuits

Applying to a Teacher Education Program at JSC

Advancing through a Teacher Education Program at JSC

## 1. Required Teacher Education Core Courses

- EDU-TEW1 Teacher Education Workshop 1: Introduction to Teacher Education 0 credits
- EDU-TEW2 Teacher Education Workshop 2: Application for Practicum I 0 credits
- EDU-TEW3 Teacher Education Workshop 3: Application for Practicum II 0 credits
- EDU-TEW4 Teacher Education Workshop 4: Application for student teaching 0 credits
- EDU-TEW5 Teacher Education Workshop 5: Application for a Verification Check 0 credits
- EDU-2360 Perspectives on Learning in a Diverse Society 3 credits \*
- EDU-2365 The Ecology of Human Experience: Development, Culture & Identity 3 credits \*
- EDU-2370 The Contemporary School 3 credits \*
- EDU-3311 Foundations of Inclusive Practices 3 credits \*
- EDU-3440 Teaching Toward Democracy 3 credits \*
- EDU-4650 Capstone & Thesis Seminar 3 credits \*

Total: 18 credits

## 2. Required Secondary Education Core Courses

- EDU-3140 Partnering with the Adolescent Learner to Promote Student Engagement 4 credits

- EDU-3360 Promoting Inventive Thinking: Integrating Multimodal Literacy Across the Curriculum 3 credits
- EDU-4130 Implementing Content Specific Methods in a Secondary Classroom 4 credits
- EDU-4850 Secondary Education Student Teaching 12 credits

### 3. Required Major for Endorsement Area

In addition to the preceding courses, students must successfully complete all Required Content-Area Courses **AND** a bachelor's degree in a major approved for their area of endorsement, as specified below.

Area of Endorsement	Approved Major(s)
<b>English Education</b> See Required Content-Area Courses for this endorsement below (Section 4).	B.F.A. in Creative Writing or B.A. in English
<b>Mathematics Education</b> See Required Content-Area Courses for this endorsement below (Section 4).	B.S. in Mathematics
<b>Science Education</b> See Required Content-Area Courses for this endorsement below (Section 4).	B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Health & Exercise Science, B.S. in Health Sciences: Physical Education, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment, or B.S. in Environmental Science: Policy & Advocacy
<b>Social Studies Education</b> See Required Content-Area Courses for this endorsement below (Section 4).	B.A. in History or B.A. in Political Science

### 4. Required Content Courses for Area of Endorsement

In addition to successfully completing an approved *major or 30-credit concentration* for their area of endorsement, students must take the *content-area courses* required for their area of endorsement. Some of these courses may meet requirements for the major as well. With the approval of the Secondary Education Program Director, appropriate course substitutions may be permitted.

#### English Education: Required Content-Area Courses

- EDU-3032 Language, Culture, Literature, & Education 3 credits
- EDU-3100 Literacy Intervention, Assessment & Strategies 3 credits
- ENG-1310 Introduction to Literature 3 credits
- ENG-3435 Practical Grammar 3 credits
- ENG-3565 Shakespeare 3 credits
- ENG-4150 Literary Criticism & Theory 3 credits

Take 3 of the following courses:

- ENG-2172 World Literature II 3 credits
- ENG-2171 World Literature I 3 credits
- ENG-2281 Survey of English Literature I 3 credits
- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENG-2321 Survey of American Literature I 3 credits
- ENG-2322 Survey of American Literature II 3 credits
- ENG-2510 Women & Literature 3 credits

Take 1 of the following courses:

- ENG-2101 Creative Writing 3 credits
- ENG-3120 Poetry Workshop 3 credits
- ENG-3130 Fiction Workshop 3 credits
- ENG-4110 The Form & Theory of Fiction 3 credits
- ENG-4120 The Form & Theory of Poetry 3 credits

Take 1 of the following courses:

- ENG-3140 The Creative Essay 3 credits
- ENG-4130 The Form & Theory of Nonfiction 3 credits

Take 2 of the following literature courses:

- ENG-3270 Myth & Myth Making 3 credits
- ENG-3320 The English Novel 3 credits
- ENG-3345 Contemporary Canadian Literature 3 credits
- ENG-3380 British Romantic Literature 3 credits
- ENG-3390 Literature of the Grotesque 3 credits
- ENG-3395 Satire in Literature 3 credits
- ENG-3435 Practical Grammar 3 credits
- ENG-3480 Modern Literature 3 credits
- ENG-3510 Contemporary Literature 3 credits
- ENG-3520 American Poetry 3 credits
- ENG-3525 Victorian Literature 3 credits
- ENG-3530 The American Novel 3 credits
- ENG-3565 Shakespeare 3 credits
- ENG-3580 African American Literature 3 credits
- ENG-4720 Seminar in Literature 3 credits

## Mathematics Education: Required Content-Area Courses

In addition to successfully completing B.S. in Mathematics, students must take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Secondary Education Program Director, appropriate course substitutions may be permitted.

- INT-3150 Gödel, Escher, Bach: An Eternal Golden Braid 3 credits (A required course for the math major)
- MAT-1531 Calculus I 4 credits
- MAT-2020 Mathematical Reasoning 3 credits
- MAT-2030 Probability & Statistics 3 credits
- MAT-2532 Calculus II 4 credits
- MAT-2533 Calculus III 4 credits (An elective in the math major)
- MAT-3040 Geometrical Reasoning 3 credits
- MAT-3210 Linear Algebra 3 credits
- MAT-3240 Probability Theory with Statistics 3 credits
- MAT-3310 Differential Equations 3 credits (An elective in the math major)
- MAT-4130 Abstract Algebra 3 credits
- MAT-4140 Geometry 3 credits
- MAT-4930 Senior Project in Mathematics 3 credits (A capstone requirement for the math major)

## Science Education: Required Content-Area Courses

In addition to successfully completing one of the approved majors for this endorsement (the B.F.A. in Creative Writing, B.A. in Biology: Field Naturalist, B.S. in Biology: General, B.S. in Biology: Pre-Medical, B.S. in Health Sciences: Health & Exercise Science, B.S. in Health Sciences: Physical Education, B.S. in Health Sciences: Pre-Physical Therapy, B.S. in Environmental Science: Analysis & Assessment or B.S. in Environmental Science: Policy & Advocacy, students must take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Secondary Education Program Director, appropriate course substitutions may be permitted.

- CHE-1031 General Chemistry I 4 credits
- ENV-1050 Introduction to Earth Science 4 credits
- PHY-1041 Physics I 4 credits

Take 1 of the following courses:

- BIO-1210 Introduction to Biology 4 credits
- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits

Take 1 of the following courses:

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-2340 Fundamentals of Ecology 4 credits
- BIO-3260 Limnology 4 credits
- ENV-3130 Environmental Geology 4 credits

## Social Studies Education: Required Content-Area Courses

In addition to successfully completing either the B.A. in History or the B.A. in Political Science, students must take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Secondary Education Program Director, appropriate course substitutions may be permitted.

- HIS-1111 World History I 3 credits
- HIS-1112 World History II 3 credits
- HIS-1211 American History I 3 credits
- HIS-1212 American History II 3 credits

Take 1 of the following courses:

- POS-1010 Introduction to Political Science 3 credits
- POS-1020 American Politics & Government 3 credits

Take 2 of the following courses:

- ANT-1010 Introduction to Cultural Anthropology 3 credits
- GEO-1010 Introduction to Geography 3 credits
- HUM-3125 Religions of the World 3 credits
- POS-1030 Comparative Government 3 credits
- POS-2040 International Relations 3 credits
- POS-3230 Third World Politics 3 credits

Take 2 of the following courses:

- HIS-3420 French Revolution 3 credits
- INT-3210 The Holocaust: An Interdisciplinary Approach 3 credits
- POS-1040 African-American History & Politics 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3070 Terrorism, Religion & the Nation-State 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits

Take 1 of the following courses:

- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits
- POS-2050 International Economics & Politics 3 credits

**Important:**

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Unified Arts Teacher License Endorsement

Johnson State College offers Unified Arts Teacher Education Programs that prepare students to teach in their area of endorsement -- **art, dance, music, physical education or theater arts** -- to students in grades PreK-12. Graduates who successfully complete one of these programs become candidates for a Level I Professional Educator's License issued by the Vermont Agency of Education. This license is required in order to work as a public school teacher in Vermont; it also is recognized and accepted by more than 40 other states, districts and territories.

All students seeking Unified Arts teaching licensure must:

- Successfully complete all Required Teacher Education Core Courses;
- Successfully complete the Required Unified Arts Education Core Courses;
- Select one of the five Unified Arts Endorsement Areas and successfully complete an approved major for that endorsement -- including all requirements for the bachelor's degree and the General Education and Graduation Requirements -- with a cumulative 3.0 GPA or better and a 3.0 GPA in the major; and
- Successfully complete the Required Content-Area Courses for their chosen area of endorsement.

**With careful planning, these requirements can be met for most programs within a four-year plan of study.** Most courses must be taken in a specific order; students should check advisement forms, program evaluations and prerequisites for details. Students must earn a B- or better in all courses marked with an asterisk (\*). Each Teacher Education Workshop (TEW) is graded as Pass/No Pass.

Theoretical Framework & Learning Pursuits

Applying to a Teacher Education Program at JSC

Advancing through a Teacher Education Program at JSC

### 1. Required Teacher Education Core Courses

- EDU-TEW1 Teacher Education Workshop 1: Introduction to Teacher Education 0 credits
- EDU-TEW2 Teacher Education Workshop 2: Application for Practicum I 0 credits
- EDU-TEW3 Teacher Education Workshop 3: Application for Practicum II 0 credits
- EDU-TEW4 Teacher Education Workshop 4: Application for student teaching 0 credits
- EDU-TEW5 Teacher Education Workshop 5: Application for a Verification Check 0 credits
- EDU-2360 Perspectives on Learning in a Diverse Society 3 credits \* (not required for Music Education majors)
- EDU-2365 The Ecology of Human Experience: Development, Culture & Identity 3 credits \*
- EDU-2370 The Contemporary School 3 credits \*
- EDU-3311 Foundations of Inclusive Practices 3 credits \*
- EDU-3440 Teaching Toward Democracy 3 credits \*
- EDU-4650 Capstone & Thesis Seminar 3 credits \*

Total: 18 credits

### 2. Required Unified Arts Core Courses

- EDU-3112 Instructional Dynamics for the Elementary Educator: Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Learners; Part III: Unified Arts for Diverse Learners 3 credits
- EDU-4310 The Art of Experience in Education: Designing for Engagement & Accomplishment through the Unified Arts 3 credits

### 3. Required Major for Unified Arts Endorsement Area

In addition to the preceding courses, students must successfully complete all Required Content-Area Courses **AND** a bachelor's degree in a major approved for their area of endorsement, as specified below.

Area of Endorsement	Approved Major(s)
Art Education	B.A. in Art or B.F.A. in Studio Arts
Dance Education	<i>Major arranged in consultation with the Unified Arts Education Coordinator</i>
Music Education	B.M.E. in Music Education
Physical Education	B.S. in Health Sciences: Physical Education
Theater Arts Education	B.A. in Theater & Drama

### 4. Required Content Courses for Endorsement Area

In addition to successfully completing an approved *major* for their area of endorsement, students must take the *content-area courses* required for their area of endorsement. Some of these courses may meet requirements for the major as well. With the approval of the Unified Arts Program Director, appropriate course substitutions may be permitted.

#### Art Education: Required Content-Area Courses

In addition to successfully completing either the B.A. in Art or the B.F.A. in Studio Arts, students must take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Unified Arts Education Program Director, appropriate course substitutions may be permitted.

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits
- ART-1140 Design I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits
- ART-3032 Advanced Drawing 3 credits
- EDU-4812 Unified Arts Student Teaching 12 credits

### Additional requirement for B.A. in Art majors:

- ARH-4720 Seminar in Contemporary Art Issues 3 credits

### Additional requirement for B.F.A. in Studio Arts majors:

- ART-4730 B.F.A. Seminar 3 credits

## Dance Education: Required Content-Area Courses

Students seeking this endorsement consult with the Unified Arts Education Program Director to select an appropriate major. They also must take the following content-area courses, some of which may meet requirements for the major as well. With the approval of the Unified Arts Education Program Director, appropriate course substitutions may be permitted.

- DAN-1010 Fundamentals of Dance 3 credits
- DAN-2040 Beginning Tap Dance 2 credits
- DAN-3020 Intermediate Ballet: Technique & History 3 credits
- DAN-3030 Improvisation/Composition: Intermediate/Advanced Level 4 credits
- DAN-3032 Body Awareness II 3 credits
- DAN-3112 Intermediate Modern Dance: Technique & History 3 credits
- DAN-3130 Jazz Dance 3 credits
- DAN-3180 Folk Dance II 3 credits
- DAN-4130 Advanced Ballet/Modern Dance: Technique & History 3 credits
- EDU-4850 Secondary Education Student Teaching 12 credits

### Take 1 of the following courses:

- DAN-3010 The Renaissance Spirit 3 credits
- DAN-3210 The Emperor Ain't Naked: A History of Western European Fashion & Social Dance from the Mid-14th Century to the Early 20th Century 3 credits

## Physical Education: Required Content-Area Courses

In addition to successfully completing the B.S. in Health Sciences: Physical Education, students must take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Unified Arts Education Program Director, appropriate course substitutions may be permitted.

- AHS-1010 Contemporary Health Issues 3 credits
- AHS-3120 Kinesiology 3 credits
- AHS-3230 Physiology of Exercise 4 credits
- AHS-4030 Psychology of Sports & Exercise 3 credits
- DAN-1010 Fundamentals of Dance 3 credits
- OER-2140 Ropes Course Leadership 2 credits
- PED-1150 Foundations of Physical Education 3 credits

- PED-2040 Team Sports 2 credits
- PED-2110 Individual, Dual & Lifetime Activities 2 credits
- PED-3120 Measurement & Evaluation 3 credits
- PED-3070 Methods of Teaching Elementary Physical Education 4 credits
- PED-3140 Methods of Teaching Secondary School Physical Education 4 credits

## Music Education: Required Content-Area Courses

In addition to successfully completing the B.A. in Music Performance & Music Education, students must choose a concentration and take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Unified Arts Education Program Director, appropriate course substitutions may be permitted.

- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1052 Keyboard Harmony II 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1062 Ear Training II 1 credits
- MUS-1120 Applied Music Lessons 0.5 credits (2 credits) (in violin, viola, cello)
- MUS-1231 Music Theory I 3 credits
- MUS-1232 Music Theory II 3 credits
- MUS-2023 Ear Training III 1 credits
- MUS-2024 Ear Training IV 1 credits
- MUS-2053 Keyboard Harmony III 1 credits
- MUS-2054 Keyboard Harmony IV 1 credits
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (4 credits)
- MUS-2250 Introduction to Music Education 2 credits
- MUS-2313 Music Theory III 3 credits
- MUS-2314 Music Theory IV 3 credits
- MUS-2361 Instrumental Techniques I 3 credits
- MUS-2362 Instrumental Techniques II 3 credits
- MUS-3031 History of Western Music I 3 credits
- MUS-3032 History of Western Music II 3 credits
- MUS-3060 Vocal Pedagogy 2 credits
- MUS-3080 Choral Literature 2 credits
- MUS-3140 Arranging/Orchestration 3 credits
- MUS-3160 Elementary School Music Methods 3 credits
- MUS-3210 Secondary School Music Methods 3 credits
- MUS-3215 Technology for the Music Classroom 3 credits
- MUS-3270 Choral Methods 3 credits
- MUS-3330 Worlds of Music 3 credits
- MUS-3401 Conducting I 3 credits
- MUS-3402 Conducting II 3 credits
- MUS-3510 Junior Recital 1 credits

## Applied Music Lessons: 6 credits

(6 credits in one primary area: vocal or instrumental)

- MUS-1120 Applied Music Lessons 0.5 credits (must include 1 credit in strings)
- MUS-1120L Applied Music Lesson Lab 0 credits
- MUS-3240 Applied Music Lessons 1 credits
- MUS-4030 Applied Music Lessons 1.5 credits

## Theater Arts: Required Content-Area Courses

In addition to successfully completing the B.A. in Theater & Drama, students must take the following content-area courses. Some of these courses may meet requirements for the major as well. With the approval of the Unified Arts Education Program Director, appropriate course substitutions may be permitted.

- THA-1040 Interpreting Contemporary Dramatic Literature 3 credits
- THA-1041 Introduction to Theater Arts 3 credits
- THA-1111 Stagecraft 3 credits
- THA-2035 Costume Construction & Stage Makeup 3 credits
- THA-2040 Performance & Production Lab 0 or 3 credits
- THA-2121 Acting I 3 credits
- THA-2121L Acting I Lab 1 credits
- THA-2122 Acting II 3 credits
- THA-3010 Shakespeare: On the Stage & On the Page 3 credits
- THA-3030 Theater for Young Audiences 3 credits
- THA-3110 Dramatic Literature: Classical/Modern 3 credits
- THA-3123 Acting III 3 credits
- THA-3130 Introduction to Design: Costume, Scenic, and Stage Lighting 3 credits
- THA-3140 Theater History 3 credits
- THA-3150 Introduction to Stage Management 3 credits
- THA-3210 Introduction to Directing 4 credits
- THA-4720 Senior Project in Theater 3 credits
- EDU-4850 Secondary Education Student Teaching 12 credits

## Important:

In order to earn a degree, you must successfully complete all requirements for your major as listed here *AND* meet all other Degree Requirements, including the General Education Curriculum requirements and JSC Graduation Standards.

## Minors

### Adventure Education Minor

Minimum of one OER Skills Course .5-3 credits

Choice of:

- OER-1030 Outdoor Education Activities 0.5 credits (Snowshoeing)
- OER-1030 Outdoor Education Activities 0.5 credits (Cross-Country Skiing)
- OER-1030 Outdoor Education Activities 0.5 credits (Intro to River Kayaking)
- OER-1030 Outdoor Education Activities 0.5 credits (Fly-fishing)
- OER-1050 Hiking & Camping 1 credits
- OER-1131 Rock Climbing I 1 credits
- OER-1060 Ropes Course 1 credits
- OER-1070 Orienteering 1 credits
- OER-1161 Whitewater Kayaking 1 credits
- OER-1162 Coastal Kayaking 1 credits
- OER-1170 Ice Climbing 1 credits
- OER-2080 Advanced Rock Craft 2 credits
- Wilderness Canoe Training
- OER-3150 Winter Expedition 3 credits

## One Instructor-Level OER (2 credits)

Choice of:

- OER-2050 Rock Climbing Instructor 2 credits
- OER-2140 Ropes Course Leadership 2 credits
- OER-1165 Coastal Kayak Guide Training 2 credits
- Other approved instructor certification course 2 credits

## Additional Required Courses

- OER-1000 Introduction to Outdoor Education 4 credits
- OER-1061 Backpacking 1 credits
- OER-2060 Wilderness First Responder 4 credits
- OER-2062 Advanced Backpacking 2 credits
- OER-3070 Adventure Education Theory & Practice 3 credits
- OER-4030 Wilderness Leadership Techniques 4 credits

Total: 20.5-23 credits

## **Anthropology & Sociology Minor**

### Required Courses

- ANT-1010 Introduction to Cultural Anthropology 3 credits
- SOC-1010 Introduction to Sociology 3 credits

- SOC-4020 Sociological Theory 3 credits **OR**
- ANT-3110 Development of Anthropological Thinking 3 credits

Electives: 9 credits

- Three ANT/SOC - courses, at least 2 must be at the 3000 or 4000 level

Total: 18 credits

## **Art History Minor**

### **Required Courses**

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits

Subtotal: 6 credits

### **Introductory Studio Electives (select two courses):**

- ART-1011 Drawing I 3 credits
- ART-1231 Ceramics I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2150 Jewelry & Metalsmithing 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits
- ART-2301 Photography I 3 credits
- ART-2410 Introduction to Printmaking 3 credits

Subtotal: 6 credits

### **Advanced Art History Electives (select three courses):**

- ARH-3015 Greek & Roman Art 3 credits
- ARH-3020 Art of the Renaissance 3 credits
- ARH-3060 Twentieth Century Art 3 credits
- ARH-3110 The Spiritual in Non-Western Art 3 credits

- ARH-3120 Art Criticism 3 credits
- ARH-3130 The History of Photography 3 credits
- ARH-3140 African Art 3 credits
- ARH-3150 Art of the Human Body 3 credits
- ARH-3210 Women in Art 3 credits
- ARH-4710 Special Topics in Art History 3 credits
- ARH-4720 Seminar in Contemporary Art Issues 3 credits

Subtotal: 9 credits

Total: 21 credits

## **Arts Management Minor (for Fine & Performing Arts majors)**

### Required Courses

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-2410 Human Resource Management 3 credits
- CIS-1430 Spreadsheets 3 credits
- **AND**
- ECO-2020 Macroeconomics 3 credits **OR**
- ECO-2030 Microeconomics 3 credits

Total: 23 credits

## **Biology Minor**

### Required Courses

- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits
- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits
- Plus a minimum of 16 biology credits to consist of four 2000- level or higher biology courses of which at least two are at the 3000-4000 level. 16 credits

Total: 24 credits

## **Business Minor**

This minor is available to non-Business majors only. All course choices and sequences should be discussed with an advisor in the Department of Business & Economics.

### **Required Courses**

- ACC-2121 Financial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2140 Personal Finance 3 credits
- BUS-2230 Principles of Marketing 3 credits
- ECO-2020 Macroeconomics 3 credits

Take 2 of the following courses:

- BUS-3050 Principles of Sales 3 credits
- BUS-3060 Consumer Behavior 3 credits
- BUS-3070 Public Relations 3 credits
- BUS-3110 Ski Area Management & Design 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3150 Production/Operations Management 3 credits
- BUS-3210 Advertising 3 credits
- BUS-3230 Financial Management 3 credits
- BUS-3250 Organizational Behavior & Management 3 credits
- BUS-3310 Greening the Business Environment 3 credits
- BUS-3370 Professional Communication 3 credits
- BUS-3390 Career Planning & Management 3 credits
- BUS-3420 Athletic Facility & Event Management 3 credits
- BUS-1350 Sport & Society, Sport Management Issues and Concepts 3 credits
- BUS-3490 Leadership & Quality 3 credits
- BUS-4030 Marketing Research 3 credits
- BUS-4320 Sport Promotion & Branding 3 credits

Total: 25-26 credits

## **Chemistry Minor**

## Required Courses

- CHE-1031 General Chemistry I 4 credits
- CHE-1032 General Chemistry II 4 credits
- CHE-XXXX Two additional upper-level CHE courses 8 credits
- ENV-1110 Introduction to Environmental Problems 3 credits

Total: 19 credits

*A chemistry minor is not permitted for students who are seeking a B.S. degree in biology.*

## Communications & Community Media Minor

### Required Courses

- ART-2110 Introduction to Digital Media 3 credits
- ART-2430 Introduction to Video Production 3 credits
- ENG-2051 Introduction to Newswriting 3 credits
- ENG-2052 Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-3020 Feature Writing 3 credits
- ENG-3022 Advanced Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-4010 Issues in Journalism 3 credits
- ENG-1260 Introduction to Photojournalism 3 credits

Total: 24 credits

## Creative Writing Minor

### Required Courses

#### Introductory-level Creative Writing Course

- ENG-2101 Creative Writing 3 credits

Lower-level Literature Survey Courses (take 3 courses)

- ENG-2171 World Literature I 3 credits
- ENG-2172 World Literature II 3 credits
- ENG-2281 Survey of English Literature I 3 credits
- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENG-2321 Survey of American Literature I 3 credits
- ENG-2322 Survey of American Literature II 3 credits
- ENG-2510 Women & Literature 3 credits

### Form & Theory Course (take 1 course)

- ENG-4110 The Form & Theory of Fiction 3 credits
- ENG-4120 The Form & Theory of Poetry 3 credits
- ENG-4130 The Form & Theory of Nonfiction 3 credits

### Upper-level Literature Courses (take 1 course)

- ENG-3270 Myth & Myth Making 3 credits
- ENG-3320 The English Novel 3 credits
- ENG-3345 Contemporary Canadian Literature 3 credits
- ENG-3380 British Romantic Literature 3 credits
- ENG-3390 Literature of the Grotesque 3 credits
- ENG-3395 Satire in Literature 3 credits
- ENG-3435 Practical Grammar 3 credits
- ENG-3480 Modern Literature 3 credits
- ENG-3510 Contemporary Literature 3 credits
- ENG-3520 American Poetry 3 credits
- ENG-3525 Victorian Literature 3 credits
- ENG-3530 The American Novel 3 credits
- ENG-3565 Shakespeare 3 credits
- ENG-3580 African American Literature 3 credits
- ENG-3680 Linguistics & Language History 3 credits
- ENG-4720 Seminar in Literature 3 credits

### Upper-level Writing Workshops (take 2 courses)

- ENG-3120 Poetry Workshop 3 credits
- ENG-3130 Fiction Workshop 3 credits
- ENG-3140 The Creative Essay 3 credits

Total: 24 credits

## **Dance Minor**

The minor in dance exposes students to the vital aspects of the art as performers, creators and observers. Courses provide students with a conceptual, historical and technical background. Advanced students may become members of the Johnson Dance Ensemble, our student dance company or may have the opportunity to become an apprentice in the Vermont Dance Collective.

### **Required Courses**

**The dance minor consists of a minimum of 24 credits selected from the following courses:**

- DAN-1010 Fundamentals of Dance 3 credits
- DAN-1111 Modern Dance 3 credits
- DAN-2010 Folk Dance 3 credits
- DAN-2030 Improvisation/Composition: Intermediate/Advanced Level 4 credits
- DAN-2131 Ballet 3 credits
- DAN-3020 Intermediate Ballet: Technique & History 3 credits
- DAN-3030 Improvisation/Composition: Intermediate/Advanced Level 4 credits
- DAN-3112 Intermediate Modern Dance: Technique & History 3 credits
- DAN-3130 Jazz Dance 3 credits
- DAN-4130 Advanced Ballet/Modern Dance: Technique & History 3 credits

Total: 24 credits

## **Environmental Education Minor**

### **Required Courses**

- ENV-1050 Introduction to Earth Science 4 credits
- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-3220 Environmental Interpretation 3 credits
- ENV-4010 Global Environmental Issues 3 credits
- ENV-XXXX One additional upper-level ENV course 3 credits
- OER-3010 Learning in the Outdoors 4 credits

Total: 20 credits

## **Environmental Science Minor**

The minor in environmental science provides sufficient background knowledge for students to comprehend the fundamentals of the science that frames the discussion for policy decisions and social action. The minor is appropriate for students who choose to major in business, economics, political science, biology, outdoor education or other majors offered at Johnson State College.

## Required Courses

- ENV-1050 Introduction to Earth Science 4 credits
- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-3030 Water Resources 3 credits
- ENV-3040 Energy & Mineral Resources 3 credits
- ENV-XXXX Two additional upper-level ENV courses 6 credits

Total: 19 credits

## French Minor

The minor in French consists of a minimum of 18 credits in French, at least six of which must be at the 3000-4000 level. Courses taken to satisfy the minor must not be required or be electives within a student's major course of study. The French minor may be gained while pursuing studies in Quebec through the New England-Quebec Program. Students may also satisfy requirements for the minor by taking FRE-4910 Independent Study in French or FRE-3010 Culture & Civilization through Correspondence & Conversation.

## Gender Studies Minor

The gender studies minor combines courses in various departments in order to consider the issue of gender from different perspectives. It is designed to engage men and women students in a wide-ranging level of inquiry that combines historical and contemporary analysis of issues and problems.

## Required Courses

- POS-3040 The Politics of Gender 3 credits
- POS-3050 Environmental Ethics & Politics 3 credits

## Electives

(Select 4 courses):

- ENG-2510 Women & Literature 3 credits
- HIS-2210 Women in U.S. History 3 credits
- HIS-3450 Women in European History 3 credits
- POS-3030 Contemporary Political Theory: Race, Class & Gender 3 credits
- SOC-2040 Race/Ethnicity, Class & Gender 3 credits
- SOC-3060 Sexuality & Intimacy 3 credits
- SOC-3170 Power, Politics & Inequality 3 credits

Total: 18 credits

## Global Studies Minor

The global studies minor is designed to address the demands brought on by the processes of globalization for students pursuing careers and/or graduate study in business, education, history, politics, public service and many other fields.

### Required Courses (9 credits)

- HIS-1112 World History II 3 credits
- POS-1010 Introduction to Political Science 3 credits **OR**
- POS-1020 American Politics & Government 3 credits
- POS-1030 Comparative Government 3 credits **OR**
- POS-2040 International Relations 3 credits

### Non-Western Course (Choose 1 course from the following, 3 credits):

- HIS-3225 Latin America: Mexico to Chile; History, Politics, Cultures 3 credits
- HIS-3510 Chinese History & Culture 3 credits
- HIS-3520 Japanese History & Culture 3 credits
- HIS-4010 History of the Middle East 3 credits
- HUM-3125 Religions of the World 3 credits
- HUM-3150 People & Cultures of the Middle East & North Africa 3 credits
- HUM-3160 African Culture 3 credits
- POS-3230 Third World Politics 3 credits

### Electives (Choose at least 9 credits from the following courses):

- FRE-1111 French I 3 credits **AND**
- FRE-1111L French I Lab 1 credits
- FRE-1112 French II 3 credits **AND**
- FRE-1112L French II Lab 1 credits
- FRE-2011 French III 3 credits **AND**
- FRE-2011L French III Lab 1 credits
- FRE-2012 French IV 3 credits **AND**
- FRE-2012L French IV Lab 1 credits
- FRE-3010 Culture & Civilization through Correspondence & Conversation 3 credits

- HIS-3020 Greek & Roman History 3 credits
- HIS-3040 Ancient Civilizations of the New World 3 credits
- HIS-3090 Modern German History 3 credits
- HIS-3225 Latin America: Mexico to Chile; History, Politics, Cultures 3 credits
- HIS-3311 Europe in the 19th Century 3 credits
- HIS-3312 Europe in the 20th Century 3 credits
- HIS-3350 Struggle for Democracy 3 credits
- HIS-3352 English History Since 1714 3 credits
- HIS-3355 The European Enlightenment 3 credits
- HIS-3370 Nationalism & Rebellion in Irish History 3 credits
- HIS-3400 Modern French History 3 credits
- HIS-3420 French Revolution 3 credits
- HIS-3430 History of the Soviet Union 3 credits
- HIS-3450 Women in European History 3 credits
- HIS-3510 Chinese History & Culture 3 credits
- HIS-3520 Japanese History & Culture 3 credits
- HIS-4010 History of the Middle East 3 credits
- HUM-3125 Religions of the World 3 credits
- HUM-3150 People & Cultures of the Middle East & North Africa 3 credits
- HUM-3160 African Culture 3 credits
- POS-1030 Comparative Government 3 credits (if not taken as a required course above)
- POS-2040 International Relations 3 credits
- POS-2050 International Economics & Politics 3 credits
- POS-3010 Survey of Western Political Thought 3 credits
- POS-3030 Contemporary Political Theory: Race, Class & Gender 3 credits
- POS-3040 The Politics of Gender 3 credits
- POS-3050 Environmental Ethics & Politics 3 credits
- POS-3070 Terrorism, Religion & the Nation-State 3 credits
- POS-3180 Politics in Film 3 credits
- POS-3210 Canadian Politics 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits
- POS-3230 Third World Politics 3 credits
- POS-3270 Revolutions, Transformed Economics & Social Change 3 credits
- POS-4010 American Foreign Policy 3 credits
- POS-4020 International Relations 3 credits
  
- SPA-1011 Spanish I 3 credits **AND**
- SPA-1011L Spanish I 1 credits
  
- SPA-1012 Spanish II 3 credits **AND**
- SPA-1012L Spanish II 1 credits
  
- SPA-2011 Spanish III 3 credits **AND**
- SPA-2011L Spanish III 1 credits
  
- SPA-2012 Spanish IV 3 credits **AND**
- SPA-2012L Spanish IV 1 credits

Total: 21 credits

## **History Minor**

The history minor is appropriate for students pursuing careers in teaching, public service, museum work, historic preservation, law and many other fields, as well as those planning graduate study in politics, history, English, anthropology and sociology.

### **Required Courses**

- HIS-1111 World History I 3 credits
- HIS-1112 World History II 3 credits
- HIS-1211 American History I 3 credits
- HIS-1212 American History II 3 credits

### **Electives**

- HIS- Upper-level European History 3 credits
- HIS- Upper-level American History 3 credits
- HIS- Upper-level history: Africa, Asia, Latin America or the Middle East 3 credits

Total: 21 credits

## **Literature Minor**

### **Required Courses**

#### **Introductory Survey Courses (take 4 courses)**

- ENG-2171 World Literature I 3 credits
- ENG-2172 World Literature II 3 credits
- ENG-2281 Survey of English Literature I 3 credits
- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENG-2321 Survey of American Literature I 3 credits
- ENG-2322 Survey of American Literature II 3 credits

## Specialty Courses in Particular Genres, Periods, Themes or Authors (take 3 courses)

- ENG-3270 Myth & Myth Making 3 credits
- ENG-3320 The English Novel 3 credits
- ENG-3345 Contemporary Canadian Literature 3 credits
- ENG-3380 British Romantic Literature 3 credits
- ENG-3390 Literature of the Grotesque 3 credits
- ENG-3395 Satire in Literature 3 credits
- ENG-3435 Practical Grammar 3 credits
- ENG-3480 Modern Literature 3 credits
- ENG-3510 Contemporary Literature 3 credits
- ENG-3520 American Poetry 3 credits
- ENG-3525 Victorian Literature 3 credits
- ENG-3530 The American Novel 3 credits
- ENG-3565 Shakespeare 3 credits
- ENG-3580 African American Literature 3 credits
- ENG-3680 Linguistics & Language History 3 credits
- ENG-4720 Seminar in Literature 3 credits

Total: 21 credits

## Mathematics Minor

Students desiring a minor in mathematics must complete the following requirements:

### Required Courses (17 credits)

- MAT-1531 Calculus I 4 credits
- MAT-2020 Mathematical Reasoning 3 credits
- MAT-2030 Probability & Statistics 3 credits
- MAT-2532 Calculus II 4 credits
- MAT-3210 Linear Algebra 3 credits

### Elective

- One course: either MAT-2533 or any mathematics course at the 3000/4000 level.

Total: 20-21 credits

*Students must earn a grade of C or better in all courses for the minor in mathematics.*

## Music Minor

The music minor exposes students to a broad overview of music and is an option for students who want to continue playing and studying music but are majoring in another field. Individual lessons and performance opportunities are offered in both traditional and jazz/contemporary settings.

### Required Courses (19 credits)

- MUS-1015 Meet the Masters 3 credits
- MUS-1051 Keyboard Harmony I 1 credits
- MUS-1052 Keyboard Harmony II 1 credits
- MUS-1061 Ear Training I 1 credits
- MUS-1062 Ear Training II 1 credits
- MUS-1231 Music Theory I 3 credits
- MUS-1232 Music Theory II 3 credits
- Select any two additional MUS courses, at least one of which is at the 3000 level 6 credits

### Applied Music Lessons & Ensemble (4 credits)

Select any combination of 4 credits.

- MUS-1120 Applied Music Lessons 0.5 credits
- MUS-2220 Music Ensemble 0 or 0.5 or 1 credits (1 credits)
- MUS-3240 Applied Music Lessons 1 credits

Total: 23 credits

## Political Science Minor

### Required Courses

- POS-1010 Introduction to Political Science 3 credits
- POS-1020 American Politics & Government 3 credits
- POS-2050 International Economics & Politics 3 credits
- POS-2110 State & Local Government 3 credits
  
- POS-3010 Survey of Western Political Thought 3 credits **OR**
- POS-3040 The Politics of Gender 3 credits

Electives

- POS-3000/4000 (2 courses) 6 Credits

Total: 21 credits

## **Pre-Law Minor**

### Required Courses

- PHI-1040 Introduction to Ethics 3 credits
- POS-1020 American Politics & Government 3 credits **OR**
- POS-1010 Introduction to Political Science 3 credits
- POS-2050 International Economics & Politics 3 credits **OR**
- POS-3010 Survey of Western Political Thought 3 credits
- POS-2110 State & Local Government 3 credits
- POS-3170 U.S. Constitutional Law 3 credits

### Electives

- HUM-3000/4000 (2 courses) 6 credits

Total: 21 credits

## **Psychology Minor**

### Required Courses

#### Core Courses

- PSY-1010 Introduction to Psychology 3 credits
- PSY-2040 Social Psychology 3 credits
- PSY-2070 Developmental Psychology 3 credits
- PSY-3010 Theories of Personality 3 credits
- PSY-3065 Abnormal Behavior 3 credits

### Electives

- Nine psychology credits at the 3000 level and above to be chosen at the discretion of the student and advisor.

Total: 24 credits

## Spanish Minor

The minor in Spanish consists of a minimum of 18 credits in Spanish, at least six of which must be at the 3000-4000 level. Students can access those upper-level courses by participating in a semester abroad through JSC's affiliation with the National Student Exchange program. Courses may also be taken through JSC's affiliation with Castleton State College (VIT). Courses taken to satisfy the minor must not be required or be electives within a student's major course of study.

## Studio Arts Minor

The minor in studio arts combines foundation work in drawing and art history with study in the student's choice of four studio areas.

### Required Courses

- ARH-2010 Survey of Western Traditions in Art 3 credits
- ARH-2060 Survey of Non-Western Traditions in Art 3 credits
- ART-1011 Drawing I 3 credits

### Introductory Studio Electives:

(select four courses)

- ART-1231 Ceramics I 3 credits
- ART-2110 Introduction to Digital Media 3 credits
- ART-2150 Jewelry & Metalsmithing 3 credits
- ART-2211 Painting I 3 credits
- ART-2251 Sculpture I 3 credits
- ART-2301 Photography I 3 credits
- ART-2410 Introduction to Printmaking 3 credits

Subtotal: 12 credits

Total: 21 credits

*Note: Upper-level studio courses may be substituted for up to 2 of the introductory studio electives.*

## Theater Minor

The minor in theater provides both a conceptual and practical study of performance and production, as well as a basic historical and literary background.

## Required Courses

- THA-1041 Introduction to Theater Arts 3 credits
- THA-1111 Stagecraft 3 credits
- THA-3140 Theater History 3 credits

Select three courses from the following:

- THA-2121 Acting I 3 credits **AND**
- THA-2121L Acting I Lab 1 credits \*
  
- THA-2122 Acting II 3 credits
- THA-3030 Theater for Young Audiences 3 credits
- THA-3123 Acting III 3 credits
- THA-3130 Introduction to Design: Costume, Scenic, and Stage Lighting 3 credits
- THA-3210 Introduction to Directing 4 credits (3 credits)

Select one course from the following:

(Complete THA 3140 before taking these courses):

- THA-3010 Shakespeare: On the Stage & On the Page 3 credits
- THA-3110 Dramatic Literature: Classical/Modern 3 credits

**Total: 21-22 credits**

*\*Students registering for THA-2121 Acting I must also register for the THA-2121L Acting I Lab for 1 credit.*

## Wellness & Alternative Medicine Minor

The minor in Wellness & Alternative Medicine is designed for students in other majors who are interested in receiving credit for and taking courses in health, wellness, and alternative medicine.

### Required Core Courses

- AHS-1010 Contemporary Health Issues 3 credits
- SOC-3080 Wellness & Alternative Medicine 3 credits

### Alternative Health Systems & Mind-Body Medicine

**Choose any 5 credits:**

- ANT-3140 Yoga and Ayurveda: Science & Culture 3 credits
- WAM-2010 Native American Healing - The Lakota & Shemanic Traditions 1 credits
- WAM-2020 Chinese Medicine & Acupuncture I 1 credits
- WAM-2040 Introduction to Meditation 1 credits
- WAM-2050 Herbs: The Medicine Garden 1 credits
- WAM-2060 Naturopathic Medicine 1 credits
- WAM-2080 Homeopathy I 1 credits
- WAM-3020 Chinese Medicine & Acupuncture II 3 credits
- WAM-3040 Mindfulness Meditation 3 credits
- WAM-3050 Herbalism, Wellness & Healing 3 credits
- WAM-3080 Homeopathy II 3 credits

## Healthcare & Healing Around the World

**Choose one of the following:**

- ANT-4020 Multicultural Health, Illness & Healing 3 credits
- SOC-4030 Global Health, Diversity & Policy 3 credits
- WAM-3060 Healing All Wounds: Global Humanitarian Aid and Warzone Medicine 3 credits

## Nutrition: Biochemistry & Eco-Politics Food & Diet

**Choose one of the following:**

- BIO-3180 Nutrition 3 credits
- SOC-3240 Nutrition, Food & Society 3 credits
- WAM-3025 Epigenetics: Diet, Lifestyle & Environment 3 credits

## Stress: Biopsychological Response & Wellness Lifestyle Choices

**Choose one of the following:**

- AHS-4025 Health Behavior: Change & Adherence 3 credits
- AHS-4110 Psychophysiology of Stress 3 credits
- WAM-3010 Living the Good Life 3 credits

Total: 20 credits

## Certificates

## Proficiency in Accounting Certificate

JSC's Certificate of Proficiency in Accounting is a flexible and convenient way to earn the additional credits required to meet Vermont licensing standards that took effect July 1, 2014, and sit for the national CPA exam. Classes may be taken on campus, online or, through JSC's External Degree Program, on weekends in Montpelier, Rutland, St. Albans or Winooski.

The program of study is tailored to each student's situation in order to amass the required 150 credit hours, including 42 credits in accounting-related courses. A person with a B.A. degree in Business would still need to accrue the required additional 30 credits, even if he or she already has the 42 credits in accounting-related courses.

A full-time student could complete the certificate in one year: In two semesters if only 30 credits are needed, or in two semesters plus the summer if 42 credits are needed. Students enrolled in the certificate program are eligible for financial aid.

**Students must complete the core business courses and the core accounting courses, at total of 43 credits, in order to earn the certificate of achievement in accounting.**

### Core Business Courses

- ACC-2121 Financial Accounting 4 credits
- ACC-2122 Managerial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2280 Introduction to Business Ethics 3 credits
- BUS-3131 Business Law I 3 credits
- BUS-3230 Financial Management 3 credits
- ECO-2020 Macroeconomics 3 credits
- ECO-2030 Microeconomics 3 credits

Total Core Business Courses: 26 credits

### Core Accounting Courses

- ACC-2230 Federal Taxes 3 credits
- ACC-2210 Cost Accounting 3 credits
- ACC-2201 Intermediate Accounting I 4 credits
- ACC-2202 Intermediate Accounting II 4 credits
- ACC-4050 Auditing & Assurance Services 3 credits

Total Core Accounting Courses: 17 credits

## Small Business Management Certificate

The program provides owners, operators, and employers with the knowledge and skills necessary to organize and operate successful small businesses. The program emphasizes management functions rather than operational techniques.

## Required Courses

- ACC-2121 Financial Accounting 4 credits
- BUS-1340 Social Entrepreneurship 3 credits
- BUS-2210 Small Business Management 3 credits
- BUS-2230 Principles of Marketing 3 credits
- BUS-3131 Business Law I 3 credits

Total: 16 credits

## General Education Programs

### General Education Curriculum for Campus-Based Students

The General Education Curriculum (GEC) for campus-based students is designed to build **Foundational Skills** in writing, mathematics and science; and provide a solid understanding of four "**Integrative Perspectives**," or ways of looking at oneself, society, the broader world -- even the universe -- and one's place within it. Courses and experiences attached to each perspective foster the development of knowledge, skills and the ability to reflect on one's learning. In these ways, the Integrative Perspectives become active tools for personal development and engagement with community and life as a whole. The four perspectives are: Aesthetic, Global, Social & Historical, and Civic.

In addition, the curriculum includes special programming for first-year students ("the First-Year Experience") designed to help them successfully transition to college academically and socially, build connections within the JSC community, and experience the many opportunities and resources at JSC that support their success through graduation. There are two requirements:

- **The First-Year Seminar:** All students entering JSC with fewer than 15 college credits must take a First-Year Seminar (FYS), which they may self-select from the semester's offerings.
- **The Creative Audience:** All entering JSC students must complete two semesters of Creative Audience programming at 0.5 credits each, for a total of 1 credit. Students attend six events each semester from a wide variety of offerings to complete this requirement.

## Foundational Skills (14-19 credits)

### 1. Natural Science with Lab (4 credits)

**Course Type:** JNS

To meet the requirement for this Foundational Skill, choose one of the following courses:

- BIO-1210 Introduction to Biology 4 credits
- BIO-1211 Introduction to Biology: Ecology & Evolution 4 credits

- BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life 4 credits
- CHE-1031 General Chemistry I 4 credits
- CHE-1055 General Chemistry, Organic Chemistry & Biochemistry 4 credits
- ENV-1050 Introduction to Earth Science 4 credits
- PHY-1041 Physics I 4 credits

## 2. Mathematics (4-6 credits)

To meet the requirements for this Foundational Skill, choose one or two of the following courses:

- MAT-1020 Intermediate Algebra 3 credits
- MAT-1080 Introduction to Quantitative Reasoning 3 credits (*Note: Passing the Quantitative Literacy Assessment Exam does not replace MAT-1080 for the Foundational Skills GEC requirement.*)
- MAT-1221 Finite Mathematics 3 credits
- MAT-1320 Pre-Calculus 3 credits
- MAT-1531 Calculus I 4 credits (satisfies the full Mathematics requirement)
- MAT-2030 Probability & Statistics 3 credits

*Note: For students with a documented learning disability in mathematics, MAT-1070 Mathematics in our Culture, will count as one of the required mathematics courses. For more information, please contact the Office of Academic Support Services.*

## 3. Written Expression (6-9 credits)

To meet the requirements for this Foundational Skill, choose two to three of the following courses:

- ENG-1071 College Writing 3 credits
- **OR**
- ENG-1031 College Writing 1A 3 credits **AND**
- ENG-1032 College Writing 1B 3 credits
- ENG-1072 Exposition & Analysis 3 credits

## Integrative Perspectives (21 credits)

### 1. Aesthetic Perspective (6 credits)

#### **Course Type: JAP**

Courses for the Aesthetic Perspective explore one or more of the following attributes: (a) the human experience of artistic and natural forms; (b) the value of aesthetic experience and the role of artistic expression in the development of self and society; (c) analytical and historical aspects of aesthetic attitudes and judgments; (d) creative processes and techniques. To meet the requirements for this perspective, choose two of the following courses:

- ART-1011 Drawing I 3 credits
- ART-2110 Introduction to Digital Media 3 credits

- ART-2211 Painting I 3 credits
- ART-2301 Photography I 3 credits
- DAN-1010 Fundamentals of Dance 3 credits
- DAN-1111 Modern Dance 3 credits
- DAN-2131 Ballet 3 credits
- DAN-3020 Intermediate Ballet: Technique & History 3 credits
- DAN-3112 Intermediate Modern Dance: Technique & History 3 credits
- ENG-2281 Survey of English Literature I 3 credits
- ENG-2282 Survey of English Literature II 3 credits
- ENG-2283 Survey of English Literature III 3 credits
- ENV-2025 Natural History Photography 3 credits
- INT-3150 Gödel, Escher, Bach: An Eternal Golden Braid 3 credits
- MAT-3040 Geometrical Reasoning 3 credits
- MUS-1030 Music Fundamentals 3 credits
- MUS-3040 Jazz in America 3 credits
- MUS-3160 Elementary School Music Methods 3 credits
- MUS-3210 Secondary School Music Methods 3 credits
- MUS-3220 History of Blues 3 credits
- THA-1040 Interpreting Contemporary Dramatic Literature 3 credits

## 2. Global Perspective (6 credits)

### Course Type: JGP

Courses for the Global Perspective explore one or more of the following attributes of the perspective: (a) the natural forces that shape our world across regions, within contexts, and throughout time; (b) the cultural constructs that shape our world across regions, within contexts and throughout time. To meet the requirements for this perspective, choose two of the following courses:

- ARH-3110 The Spiritual in Non-Western Art 3 credits
- DAN-2010 Folk Dance 3 credits
- DAN-3180 Folk Dance II 3 credits
- ECO-2020 Macroeconomics 3 credits
- EDU-2365 The Ecology of Human Experience: Development, Culture & Identity 3 credits
- ENV-1040 Introduction to Oceanography 3 credits
- ENV-1090 Introduction to Weather, Climate & Climate Change 3 credits
- ENV-1110 Introduction to Environmental Problems 3 credits
- ENV-2080 The Anthropocene 3 credits
- GEO-1010 Introduction to Geography 3 credits
- HIS-1111 World History I 3 credits
- HIS-1112 World History II 3 credits
- HUM-3125 Religions of the World 3 credits
- MUS-3330 Worlds of Music 3 credits
- POS-1030 Comparative Government 3 credits
- POS-2040 International Relations 3 credits
- POS-2050 International Economics & Politics 3 credits
- POS-3050 Environmental Ethics & Politics 3 credits
- POS-3220 Genocide: Inhumanity Across the Ages 3 credits

### 3. Social & Historical Perspective (6 credits)

**Course Type: JSH**

Courses for the Social and Historical Perspective explore one or more of the following attributes: (a) human thought and activity across time; (b) human beliefs and value systems; (c) patterns of social interaction and development; (d) institutional behavior and change. To meet the requirements for this perspective, choose two of the following courses:

- ARH-2010 Survey of Western Traditions in Art 3 credits
- DAN-3010 The Renaissance Spirit 3 credits
- DAN-3210 The Emperor Ain't Naked: A History of Western European Fashion & Social Dance from the Mid-14th Century to the Early 20th Century 3 credits
- ECO-2030 Microeconomics 3 credits
- EDU-2360 Perspectives on Learning in a Diverse Society 3 credits
- ENG-3090 Horse & Human Culture 3 credits
- HIS-1211 American History I 3 credits
- HIS-1212 American History II 3 credits
- HUM-3110 Native American History & Culture 3 credits
- HUM-3115 Native American Worldview & Spirituality 3 credits
- HUM-3120 The Abenaki & Their Neighbors 3 credits
- HUM-3150 People & Cultures of the Middle East & North Africa 3 credits
- HUM-3160 African Culture 3 credits
- INT-3210 The Holocaust: An Interdisciplinary Approach 3 credits
- MUS-3031 History of Western Music I 3 credits
- MUS-3032 History of Western Music II 3 credits
- MUS-3050 The Social History of Rock & Roll 3 credits
- PHI-1010 Introduction to Philosophy 3 credits
- PHI-1040 Introduction to Ethics 3 credits
- POS-1010 Introduction to Political Science 3 credits
- POS-1020 American Politics & Government 3 credits
- POS-1040 African-American History & Politics 3 credits
- POS-3210 Canadian Politics 3 credits
- PSY-1010 Introduction to Psychology 3 credits
- SOC-1010 Introduction to Sociology 3 credits
- SOC-3250 To War and Back 3 credits

### 4. Civic Perspective (3 credits)

**Course Type: JCP**

Courses for the Civic Perspective explore one or more of the following attributes: (a) thought and action for the common good; (b) citizenship and public decision-making; (c) activities connecting self and society; (d) personal choice and social responsibility. This perspective is met through the union of academic study, intentional engagement with the college or community, and personal reflection. To meet the requirements for this perspective, choose one of the courses listed below.

*Note: Due to the limited number of courses approved for the Civic Perspective at this time, students who start in the fall 2015 semester may substitute a course from one of the other perspectives (Aesthetic, Global or Social & Historical) to fulfill this*

requirement. This means taking an additional course from one of the other perspectives, for a total of 9 credits for that perspective.

- BUS-3125 Business Practices and Civic Engagement 3 credits
- ENG-2052 Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- ENG-3022 Advanced Newspaper Publishing: Writing, Editing, Layout & Design 3 credits
- OER-3010 Learning in the Outdoors 4 credits
- POS-2010 Observation of the Legislative Process 3 credits
- PSY-2810 Internship in Psychology 1-12 credits
- PSY-4810 Internship in Psychology 1-12 credits
- THA-3030 Theater for Young Audiences 3 credits

## General Education Curriculum for Distance Learning Students (JSC Online and EDP)

Students enrolled in JSC Online or the External Degree Program must earn at least 60 credits in the liberal arts. These credits must include the following components of the General Education Curriculum:

### Key Skills: 6 credits

- Mathematics (3 credits)
- Rhetorical Expression: ENG-1220 Rhetorical Expression (3 credits), or earn a waiver by passing a challenge exam. This requirement should be met by the end of a student's second semester or after completion of 15 credits in EDP. ENG-1220 Rhetorical Expression meets the College's graduation requirement in writing for JSC Online and EDP students, and no other course or experiential credits can substitute for it. [Note: Students taking the challenge exam are charged a \$100 fee.]

### Integrated Knowledge: 25 credits

- *Individual and Human Relationships* (6 credits). English literature or writing, languages, communications, psychology or other courses with a focus on understanding self and others.
- *Social and Historical Relationships* (6 credits). Sociology, history, political science, economics, law and other courses focusing on social institutions, movements and problems past and present. At least three credits must emphasize an historical perspective.
- *Environmental and World Relationships* (7 credits). Sciences (physical, biological, environmental, health). At least four credits must use or study scientific method, including a lab or field study.
- *Universal and Philosophical Relationships* (6 credits). Studies with a focus on transcendent issues, symbolic systems and aesthetic understanding. At least three credits must be in a consciously speculative field such as philosophy, religious studies, mythology, aesthetic or symbolic theory. Other credits can be in areas such as art, music or drama.

**Note:** For students majoring in Interdisciplinary Studies (B.A.), no more than 6 credits in the major can be applied to the General Education Curriculum.

## Course Descriptions

Courses that meet the General Education Curriculum (GEC) are so noted at the end of their individual course description.

Courses noted as “shared” are also offered at one or more of the other Vermont State Colleges.

## **Accounting**

**ACC-1010 Computerized Accounting**

**ACC-2121 Financial Accounting**

**ACC-2122 Managerial Accounting**

**ACC-2201 Intermediate Accounting I**

**ACC-2202 Intermediate Accounting II**

**ACC-2210 Cost Accounting**

**ACC-2230 Federal Taxes**

**ACC-2710 Special Topics in Accounting**

**ACC-2910 Independent Study in Accounting**

**ACC-3030 Business Accounting Systems**

**ACC-4050 Auditing & Assurance Services**

**ACC-4910 Independent Study in Accounting**

## **Allied Health Sciences**

**AHS-1010 Contemporary Health Issues**

**AHS-1080 Lifetime Fitness**

**AHS-1330 FYS: Being Here on Purpose**

**AHS-1340 First Aid and CPR**

**AHS-2040 Advanced First Aid & Emergency Care**

**AHS-2080 Health Sciences Seminar**

**AHS-2130 Strength & Conditioning**

**AHS-2810 Internship in Allied Health Science**

**AHS-2910 Independent Study in Allied Health Science**

**AHS-3010 Therapeutic Massage**

**AHS-3043 Care & Prevention of Athletic Injuries**

**AHS-3050 Introduction to Pharmacology**

**AHS-3110 Health & Healing: The Mind/Body Connection**

**AHS-3120 Kinesiology**

**AHS-3230 Physiology of Exercise**

**AHS-4025 Health Behavior: Change & Adherence**

**AHS-4030 Psychology of Sports & Exercise**

**AHS-4060 Cardiopulmonary Assessment, Rehabilitation & Training**

**AHS-4110 Psychophysiology of Stress**

**AHS-4810 Internship in Allied Health Science**

**AHS-4910 Independent Study in Allied Health Science**

**AHS-4911 Senior Research**

# **Anthropology**

**ANT-1010 Introduction to Cultural Anthropology**

**ANT-2810 Internship in Anthropology**

**ANT-2910 Independent Study in Anthropology**

**ANT-3020 Religion, Culture & Alternate Realities**

**ANT-3040 Culture Change in the Modern World**

**ANT-3110 Development of Anthropological Thinking**

**ANT-3120 Science, Research Methods & Ethics**

**ANT-3130 Culture & Personality**

**ANT-3140 Yoga and Ayurveda: Science & Culture**

**ANT-4010 Anthropology of Death**

**ANT-4020 Multicultural Health, Illness & Healing**

**ANT-4720 Senior Seminar in Anthropology/Sociology**

**ANT-4730 Topical Seminar in Anthropology**

**ANT-4810 Internship in Anthropology**

**ANT-4910 Independent Study in Anthropology**

## **Art**

**ART-2XXX Turning Intensive**

**ART-1011 Drawing I**

**ART-1025 Learning Communities Lab: Art & Human Dignity**

**ART-1080 FYS: iMe: Reinventing Yourself in the Digital Age**

**ART-1090 Worlds of Art**

**ART-1130 Revitalizing Community Through the Arts**

**ART-1140 Design I**

**ART-1180 FYS: Art of Social Imagination: Sculpture in a Public Realm**

**ART-1231 Ceramics I**

**ART-2007 FYS: Comix Go Legit: Contemporary Graphic**

**ART-2110 Introduction to Digital Media**

**ART-2120 Intro. Media Arts**

**ART-2150 Jewelry & Metalsmithing**

**ART-2211 Painting I**

**ART-2251 Sculpture I**

**ART-2301 Photography I**

**ART-2410 Introduction to Printmaking**

**ART-2430 Introduction to Video Production**

**ART-2810 Internship in Art**

**ART-2910 Independent Study in Art**

**ART-3031 Life Drawing**

**ART-3032 Advanced Drawing**

**ART-3040 Landscape Painting**

**ART-3222 Ceramics II**

**ART-3240 Art Methods: PreK Through 12**

**ART-3314 Advanced Printmaking**

**ART-3320 Monoprints**

**ART-4007 Graphic Novels**

**ART-4020 Advanced Digital Media**

**ART-4025 Advanced Digital Media: Documentary & Social Media**

**ART-4040 Advanced Photography**

**ART-4050 Advanced Painting**

**ART-4060 Advanced Digital: Graphic Design**

**ART-4070 Advanced Digital: Web Design for Artists**

**ART-4075 Advanced Digital: Animation & Motion Graphics**

**ART-4080 Advanced Digital Media: Intermedia**

**ART-4110 Visual Art & Performance**

**ART-4120 B.F.A. Project & Exhibit**

**ART-4130 Advanced Sculpture**

**ART-4140 Advanced Photojournalism**

**ART-4150 Advanced Digital: Video**

**ART-4710 Special Topics in Art**

**ART-4730 B.F.A. Seminar**

**ART-4810 Internship in Art**

**ART-4910 Independent Study in Art**

**WFD-1020 Design Studio I: Small Tables**

**WFD-2010 Foundations of Furniture Design II**

**WFD-2020 Design Studio II: Casework Construction**

**WFD-2030 Business Practice and Marketing for Artisans**

**WFD-3010 Thinking and Achieving Through Craft**

**WFD-3020 Design Studio III: Chairs**

## **Art History**

**ARH-1030 FYS: Art & Ethics**

**ARH-2010 Survey of Western Traditions in Art**

**ARH-2060 Survey of Non-Western Traditions in Art**

**ARH-2910 Independent Study in Art History**

**ARH-3015 Greek & Roman Art**

**ARH-3020 Art of the Renaissance**

**ARH-3060 Twentieth Century Art**

**ARH-3075 History of Media Art**

**ARH-3110 The Spiritual in Non-Western Art**

**ARH-3120 Art Criticism**

**ARH-3130 The History of Photography**

**ARH-3140 African Art**

**ARH-3150 Art of the Human Body**

**ARH-3210 Women in Art**

**ARH-4710 Special Topics in Art History**

**ARH-4720 Seminar in Contemporary Art Issues**

**ARH-4910 Independent Study in Art History**

## **Biology**

**BIO-1050 FYS: Pretty or Nasty: The World of Cosmetics**

**BIO-1210 Introduction to Biology**

**BIO-1211 Introduction to Biology: Ecology & Evolution**

**BIO-1212 Introduction to Biology: Cells & Genetic Basis of Life**

**BIO-1230 Field Ecology**

**BIO-1781 Ecology of Subtropical Ecosystems**

**BIO-2011 Human Anatomy & Physiology I**

**BIO-2012 Human Anatomy & Physiology II**

**BIO-2130 Natural History of the Yellowstone Plateau**

**BIO-2145 Plant Biology**

**BIO-2310 Invertebrate & Vertebrate Zoology**

**BIO-2340 Fundamentals of Ecology**

**BIO-2710 Special Topics in Biology**

**BIO-2810 Internship in Biology**

**BIO-2910 Independent Study in Biology**

**BIO-3110 Field Ornithology**

**BIO-3125 Biological Chemistry**

**BIO-3130 Cellular Biology: A Molecular Approach**

**BIO-3140 Microbiology**

**BIO-3160 Animal Behavior**

**BIO-3170 Mammalogy**

**BIO-3180 Nutrition**

**BIO-3220 Genetics**

**BIO-3260 Limnology**

**BIO-3270 Forest Ecology**

**BIO-3280 Environmental Toxicology**

**BIO-3290 Conservation Biology**

**BIO-3310 Wildlife Field Methods**

**BIO-3320 Ornithology**

**BIO-3720 Current Topics in Biology**

**BIO-4220 Wildlife Ecology & Management**

**BIO-4810 Internship in Biology**

**BIO-4910 Independent Study in Biology**

**BIO-4920 Senior Thesis**

## **Business**

**BUS-1025 Learning Communities Lab: Go GloBull**

**BUS-1080 FYS: Globalize It?**

**BUS-1340 Social Entrepreneurship**

**BUS-1350 Sport & Society, Sport Management Issues and Concepts**

**BUS-2140 Personal Finance**

**BUS-2210 Small Business Management**

**BUS-2230 Principles of Marketing**

**BUS-2280 Introduction to Business Ethics**

**BUS-2410 Human Resource Management**

**BUS-2810 Internship in Business Management**

**BUS-2910 Independent Study in Business**

**BUS-3050 Principles of Sales**

**BUS-3060 Consumer Behavior**

**BUS-3070 Public Relations**

**BUS-3110 Ski Area Management & Design**

**BUS-3125 Business Practices and Civic Engagement**

**BUS-3131 Business Law I**

**BUS-3150 Production/Operations Management**

**BUS-3210 Advertising**

**BUS-3230 Financial Management**

**BUS-3250 Organizational Behavior & Management**

**BUS-3310 Greening the Business Environment**

**BUS-3370 Professional Communication**

**BUS-3390 Career Planning & Management**

**BUS-3420 Athletic Facility & Event Management**

**BUS-3490 Leadership & Quality**

**BUS-4030 Marketing Research**

**BUS-4060 Strategic Management**

**BUS-4180 Leadership & Management of Nonprofit Organizations**

**BUS-4320 Sport Promotion & Branding**

**BUS-4710 Special Topics in Business**

**BUS-4720 Senior Seminar**

**BUS-4810 Internship in Business Management**

**BUS-4840 Social Entrepreneurship Capstone**

**BUS-4910 Independent Study in Business**

## **Chemistry**

**CHE-1031 General Chemistry I**

**CHE-1032 General Chemistry II**

**CHE-1055 General Chemistry, Organic Chemistry & Biochemistry**

**CHE-2910 Independent Study in Chemistry**

**CHE-3111 Organic Chemistry I**

**CHE-3112 Organic Chemistry II**

**CHE-4910 Independent Study in Chemistry**

## **Communications**

**COM-2050 Introduction to Film Study**

## **Community Service**

**CSV-1011 Principles in Community Service Learning**

**CSV-1012 Community Service Learning**

**CSV-2810 Internship in Community Service**

**CSV-2910 Independent Study in Community Service**

**CSV-3010 Leadership through Volunteer Service Learning**

**CSV-4810 Internship in Community Service**

**CSV-4910 Independent Study in Community Service**

## **Computer Information Systems**

**CIS-1430 Spreadsheets**

**CIS-2220 Website Design**

**CIS-2271 Java Programming**

**CIS-2910 Independent Study in Computer Information Systems**

**CIS-3040 Database**

**CIS-3272 Advanced Java Programming**

**CIS-4910 Independent Study in Computer Information Systems**

## **Criminal Justice**

**CRJ-1010 Introduction to Criminal Justice**

**CRJ-1040 Criminal Justice Lecture Series: Careers in the Field**

**CRJ-2150 Community & Restorative Justice**

**CRJ-2230 Introduction to Criminal Law**

**CRJ-4020 Criminal Justice: Who is "Criminal"?**

**CRJ-4730 Topical Seminar in Criminal Justice**

**CRJ-4770 Criminal Justice Internship Seminar**

**CRJ-4810 Internship in Criminal Justice**

**PSY-4035 Forensic Psychology**

## **Dance**

**DAN-1010 Fundamentals of Dance**

**DAN-1020 Fundamentals of Jazz Dance**

**DAN-1030 Body Awareness**

**DAN-1035 FYS: Perfect Body/Perfect Exercise**

**DAN-1111 Modern Dance**

**DAN-1210 FYS: If I Can't Dance, Keep Your Revolution**

**DAN-2010 Folk Dance**

**DAN-2030 Improvisation/Composition: Intermediate/Advanced Level**

**DAN-2040 Beginning Tap Dance**

**DAN-2131 Ballet**

**DAN-2730 Topical Seminar in Dance**

**DAN-2910 Independent Study in Dance**

**DAN-3010 The Renaissance Spirit**

**DAN-3020 Intermediate Ballet: Technique & History**

**DAN-3030 Improvisation/Composition: Intermediate/Advanced Level**

**DAN-3032 Body Awareness II**

**DAN-3112 Intermediate Modern Dance: Technique & History**

**DAN-3130 Jazz Dance**

**DAN-3140 African/Caribbean Dance & Culture**

**DAN-3180 Folk Dance II**

**DAN-3210 The Emperor Ain't Naked: A History of Western European Fashion & Social Dance from the Mid- 14th Century to the Early 20th Century**

**DAN-4130 Advanced Ballet/Modern Dance: Technique & History**

**DAN-4910 Independent Study in Dance**

## **Economics**

**ECO-2020 Macroeconomics**

**ECO-2030 Microeconomics**

**ECO-2910 Independent Study in Economics**

**ECO-3010 Environmental Economics**

**ECO-3030 Public Finance & Administration**

**ECO-4910 Independent Study in Economics**

## **Education**

**EDU-TEW1 Teacher Education Workshop 1: Introduction to Teacher Education**

**EDU-TEW2 Teacher Education Workshop 2: Application for Practicum I**

**EDU-TEW3 Teacher Education Workshop 3: Application for Practicum II**

**EDU-TEW4 Teacher Education Workshop 4: Application for student teaching**

**EDU-TEW5 Teacher Education Workshop 5: Application for a Verification Check**

**EDU-1020 The Human Endeavor**

**EDU-1110 FYS: Critical Thinking in an Age of Media Confusion**

**EDU-2360 Perspectives on Learning in a Diverse Society**

**EDU-2365 The Ecology of Human Experience: Development, Culture & Identity**

**EDU-2370 The Contemporary School**

**EDU-2910 Independent Study in Education**

**EDU-3025 Evaluating Characteristics of Diverse Learners**

**EDU-3032 Language, Culture, Literature, & Education**

**EDU-3100 Literacy Intervention, Assessment & Strategies**

**EDU-3110 Literature for Children**

**EDU-3112 Instructional Dynamics for the Elementary Educator: Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Learners; Part III: Unified Arts for Diverse Learners**

**EDU-3125 Technology for Integrating Instruction**

**EDU-3140 Partnering with the Adolescent Learner to Promote Student Engagement**

**EDU-3265 Instructional Dynamics for the Elementary Educator - Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Lessons; Part I: Language, Literacy, & Literature for Diverse Learners**

**EDU-3266 Instructional Dynamics for the Elementary Educator - Curriculum, Instruction & Assessment for Integrated, Engaging & Creative Lessons; Part II: Numeracy & Quantitative Reasoning for Diverse Learners**

**EDU-3300 Introduction to Classroom Management**

**EDU-3311 Foundations of Inclusive Practices**

**EDU-3360 Promoting Inventive Thinking: Integrating Multimodal Literacy Across the Curriculum**

**EDU-3425 GeoCultural Studies**

**EDU-3440 Teaching Toward Democracy**

**EDU-3445 Applied Mechanics I**

**EDU-3460 Literature & Media for Children & Youth**

**EDU-3570 Dynamic Symmetry**

**EDU-3811 Instructional Practicum**

**EDU-4051 Strategies to Promote Inclusive Practices**

**EDU-4130 Implementing Content Specific Methods in a Secondary Classroom**

**EDU-4310 The Art of Experience in Education: Designing for Engagement & Accomplishment through the Unified Arts**

**EDU-4368 Classroom Strategies Practicum**

**EDU-4630 Integrated Elementary Methods Practicum: Intention, Knowledge & Presence**

**EDU-4640 Special Education Practices & Procedures**

**EDU-4650 Capstone & Thesis Seminar**

**EDU-4812 Unified Arts Student Teaching**

**EDU-4820 Elementary Student Teaching**

**EDU-4850 Secondary Education Student Teaching**

**EDU-4910 Independent Study in Education**

## **English**

**ENG-1005 College Reading**

**ENG-1031 College Writing 1A**

**ENG-1032 College Writing 1B**

**ENG-1070 Effective Speaking**

**ENG-1071 College Writing**

**ENG-1072 Exposition & Analysis**

**ENG-1090 FYS: The Vampire in Western Culture**

**ENG-1220 Rhetorical Expression**

**ENG-1260 Introduction to Photojournalism**

**ENG-1310 Introduction to Literature**

**ENG-1330 FYS: Language of Film**

**ENG-1360 FYS: Dystopia: Cautionary Tales of a Nightmarish Future**

**ENG-1420 FYS: Journaling: Writing in New Territory**

**ENG-2005 The Self-Sufficient Writer**

**ENG-2031 Editing & Publishing: The Literary Magazine**

**ENG-2051 Introduction to Newswriting**

**ENG-2052 Newspaper Publishing: Writing, Editing, Layout & Design**

**ENG-2101 Creative Writing**

**ENG-2171 World Literature I**

**ENG-2172 World Literature II**

**ENG-2281 Survey of English Literature I**

**ENG-2282 Survey of English Literature II**

**ENG-2283 Survey of English Literature III**

**ENG-2321 Survey of American Literature I**

**ENG-2322 Survey of American Literature II**

**ENG-2323 FYS: 1492: Reading the Conquest**

**ENG-2355 FYS: Tradition & Identity in Contemporary Literature**

**ENG-2510 Women & Literature**

**ENG-2810 Internship**

**ENG-2910 Independent Study in English**

**ENG-3020 Feature Writing**

**ENG-3022 Advanced Newspaper Publishing: Writing, Editing, Layout & Design**

**ENG-3032 Advanced Editing & Publishing: The Literary Magazine**

**ENG-3090 Horse & Human Culture**

**ENG-3120 Poetry Workshop**

**ENG-3130 Fiction Workshop**

**ENG-3140 The Creative Essay**

**ENG-3270 Myth & Myth Making**

**ENG-3320 The English Novel**

**ENG-3345 Contemporary Canadian Literature**

**ENG-3380 British Romantic Literature**

**ENG-3390 Literature of the Grotesque**

**ENG-3395 Satire in Literature**

**ENG-3405 Literary Journalism**

**ENG-3435 Practical Grammar**

**ENG-3480 Modern Literature**

**ENG-3510 Contemporary Literature**

**ENG-3520 American Poetry**

**ENG-3525 Victorian Literature**

**ENG-3530 The American Novel**

**ENG-3565 Shakespeare**

**ENG-3580 African American Literature**

**ENG-3680 Linguistics & Language History**

**ENG-4010 Issues in Journalism**

**ENG-4110 The Form & Theory of Fiction**

**ENG-4120 The Form & Theory of Poetry**

**ENG-4130 The Form & Theory of Nonfiction**

**ENG-4150 Literary Criticism & Theory**

**ENG-4160 Investigative Journalism**

**ENG-4510 Literary Research Tutorial**

**ENG-4720 Seminar in Literature**

**ENG-4810 Internship**

**ENG-4900 Independent Study in English**

**ENG-4920 Senior Thesis**

## **English as a Second Language**

**ESL-1010 Conversation & Listening Skills**

**ESL-1021 Written Expression I**

**ESL-1022 Written Expression II**

**ESL-1031 Understanding & Using English Grammar & Vocabulary I**

**ESL-1032 Understanding & Using English Grammar & Vocabulary II**

**ESL-1040 Editing Lab**

**ESL-1050 Supplemental Instruction Bridge**

**ESL-2910 Independent Study in English as a Second Language**

## **Environmental Science**

**ENV-1040 Introduction to Oceanography**

**ENV-1050 Introduction to Earth Science**

**ENV-1060 FYS: Nuclear Power & Society**

**ENV-1090 Introduction to Weather, Climate & Climate Change**

**ENV-1110 Introduction to Environmental Problems**

**ENV-2025 Natural History Photography**

**ENV-2050 The Natural History of Vermont**

**ENV-2080 The Anthropocene**

**ENV-2210 Current Topics in Science**

**ENV-2270 START Seminar**

**ENV-2810 Internship in Environmental Science**

**ENV-2910 Independent Study in Environmental Science**

**ENV-3010 Land Use Planning**

**ENV-3020 Environmental Law**

**ENV-3030 Water Resources**

**ENV-3040 Energy & Mineral Resources**

**ENV-3130 Environmental Geology**

**ENV-3150 Toxic & Solid Waste Management**

**ENV-3160 Coastal & Marine Resources**

**ENV-3220 Environmental Interpretation**

**ENV-3230 National Parks & Wilderness Management**

**ENV-3240 Fundamentals of Soil Science**

**ENV-3250 Meteorology & Climatology**

**ENV-3260 Global Climate Change**

**ENV-3310 Applications in GIS**

**ENV-3400 Advanced GIS: Spatial Modeling**

**ENV-4010 Global Environmental Issues**

**ENV-4710 Special Topics in Environmental Science**

**ENV-4720 Senior Thesis**

**ENV-4730 Senior Seminar**

**ENV-4810 Internship in Environmental Science**

**ENV-4910 Independent Study in Environmental Science**

## **French**

**FRE-1111 French I**

**FRE-1111L French I Lab**

**FRE-1112 French II**

**FRE-1112L French II Lab**

**FRE-2011 French III**

**FRE-2011L French III Lab**

**FRE-2012 French IV**

**FRE-2012L French IV Lab**

**FRE-2910 Independent Study in French**

**FRE-3010 Culture & Civilization through Correspondence & Conversation**

**FRE-4910 Independent Study in French**

## **Geography**

**GEO-1010 Introduction to Geography**

## **Geology**

**GEY-3110 Hydrogeology**

**GEY-3120 Field Geology**

**GEY-4910 Independent Study in Geology**

## **History**

NOTE: Upper-level (3000-4000) courses in History are offered on a rotating basis, generally every other year.

**HIS-1030 FYS: The Hidden History of Vermont: Class, Ethnicity & Gender**

**HIS-1101 FYS: Truthiness 101: A Brief History of Consumer Culture**

**HIS-1111 World History I**

**HIS-1112 World History II**

**HIS-1211 American History I**

**HIS-1212 American History II**

**HIS-2140 The Civil War**

**HIS-2210 Women in U.S. History**

**HIS-2255 Early Modern Europe**

**HIS-2285 Modern Europe**

**HIS-2810 Internship in History**

**HIS-2910 Independent Study in History**

**HIS-3020 Greek & Roman History**

**HIS-3040 Ancient Civilizations of the New World**

**HIS-3050 Community in America**

**HIS-3060 Church & State in America**

**HIS-3080 Colonial America: History & Life**

**HIS-3090 Modern German History**

**HIS-3141 History of the United States in the 20th Century I**

**HIS-3142 History of the United States in the 20th Century II**

**HIS-3160 Vermont's Coastal Regions**

**HIS-3165 Vermont History**

**HIS-3167 Women in Vermont History**

**HIS-3225 Latin America: Mexico to Chile; History, Politics, Cultures**

**HIS-3311 Europe in the 19th Century**

**HIS-3312 Europe in the 20th Century**

**HIS-3350 Struggle for Democracy**

**HIS-3351 English History to 1714**

**HIS-3352 English History Since 1714**

**HIS-3355 The European Enlightenment**

**HIS-3370 Nationalism & Rebellion in Irish History**

**HIS-3400 Modern French History**

**HIS-3420 French Revolution**

**HIS-3430 History of the Soviet Union**

**HIS-3450 Women in European History**

**HIS-3510 Chinese History & Culture**

**HIS-3520 Japanese History & Culture**

**HIS-4010 History of the Middle East**

**HIS-4020 European History in Europe**

**HIS-4730 Seminar in Historical Communication**

**HIS-4740 Seminar in Historical Investigation**

**HIS-4810 Internship in History**

**HIS-4840 Senior Thesis: History**

**HIS-4910 Independent Study in History**

## **Hospitality & Tourism Management**

**BUS-3440 Ecotourism and Sustainability**

**HTM-1010 Survey of Hospitality & Tourism**

**HTM-2910 Independent Study in Hospitality & Tourism Management**

**HTM-3010 Food & Beverage Management**

**HTM-3110 Lodging & Resort Operations**

**HTM-3150 Event Management**

**HTM-3230 Facility Planning & Design**

**HTM-3710 Special Topics in Hospitality & Tourism**

**HTM-4910 Independent Study in Hospitality & Tourism Management**

## **Humanities**

**HUM-1020 FYS: Cultivating the Cross-Cultural Mind**

**HUM-1040 FYS: The Long Emergency & the Coming War**

**HUM-1060 FYS: Culture, Heritage & the Public: Encountering Our Collective Past**

**HUM-2810 Internship in Humanities**

**HUM-2910 Independent Study in Humanities**

**HUM-3010 Myth & the Modern Age**

**HUM-3030 The Mythic Journey**

**HUM-3040 Genesis**

**HUM-3110 Native American History & Culture**

**HUM-3115 Native American Worldview & Spirituality**

**HUM-3120 The Abenaki & Their Neighbors**

**HUM-3125 Religions of the World**

**HUM-3150 People & Cultures of the Middle East & North Africa**

**HUM-3160 African Culture**

**HUM-3170 Popular Culture in America**

**HUM-3310 Cultures through Cuisine**

**HUM-4810 Internship in Humanities**

**HUM-4910 Independent Study in Humanities**

## **Interdisciplinary**

**INT-1025 Explore & Connect**

**INT-2910 Independent Study in Interdisciplinary Studies**

**INT-3010 Natural Landscapes & Literature**

**INT-3045 The Bible: History, Literature, Spirituality**

**INT-3050 The Art & Culture of Cuba**

**INT-3130 Compassion & You: An Introduction to Mahayana Buddhism**

**INT-3150 Gödel, Escher, Bach: An Eternal Golden Braid**

**INT-3210 The Holocaust: An Interdisciplinary Approach**

**INT-4610 Senior Seminar in Interdisciplinary Studies**

**INT-4710 Special Topics in Interdisciplinary Studies**

**INT-4910 Independent Study in Interdisciplinary Studies**

**INT-4950 Senior Seminar in Professional Studies**

**Mathematics**

**MAT-0410 Fundamentals of Algebra**

**MAT-1020 Intermediate Algebra**

**MAT-1070 Mathematics in our Culture**

**MAT-1080 Introduction to Quantitative Reasoning**

**MAT-1090 FYS: Mathematical Puzzles through History**

**MAT-1221 Finite Mathematics**

**MAT-1320 Pre-Calculus**

**MAT-1531 Calculus I**

**MAT-2020 Mathematical Reasoning**

**MAT-2030 Probability & Statistics**

**MAT-2532 Calculus II**

**MAT-2533 Calculus III**

**MAT-2810 Internship in Mathematics**

**MAT-2910 Independent Study in Mathematics**

**MAT-3040 Geometrical Reasoning**

**MAT-3210 Linear Algebra**

**MAT-3240 Probability Theory with Statistics**

**MAT-3310 Differential Equations**

**MAT-4130 Abstract Algebra**

**MAT-4140 Geometry**

**MAT-4710 Special Topics in Mathematics**

**MAT-4810 Internship in Mathematics**

**MAT-4910 Independent Study in Mathematics**

**MAT-4930 Senior Project in Mathematics**

## **Music**

**MUS-1015 Meet the Masters**

**MUS-1030 Music Fundamentals**

**MUS-1045 FYS: Songwriting for Beginners**

**MUS-1050 Elementary Piano Class**

**MUS-1051 Keyboard Harmony I**

**MUS-1052 Keyboard Harmony II**

**MUS-1061 Ear Training I**

**MUS-1062 Ear Training II**

**MUS-1120 Applied Music Lessons**

**MUS-1120L Applied Music Lesson Lab**

**MUS-1160 FYS: Music & Culture of New Orleans**

**MUS-1231 Music Theory I**

**MUS-1232 Music Theory II**

**MUS-2013 Jazz/Contemporary Theory & Improvisation III**

**MUS-2014 Jazz/Contemporary Theory & Improvisation IV**

**MUS-2023 Ear Training III**

**MUS-2024 Ear Training IV**

**MUS-2040 Foreign Language Diction**

**MUS-2053 Keyboard Harmony III**

**MUS-2054 Keyboard Harmony IV**

**MUS-2080 Songwriting I**

**MUS-2120 String Instrument Teaching Methods**

**MUS-2160 Introduction to Technology in Music**

**MUS-2211 Jazz/Contemporary Keyboard III**

**MUS-2212 Jazz/Contemporary Keyboard IV**

**MUS-2220 Music Ensemble**

**MUS-2231 Studio Recording I**

**MUS-2250 Introduction to Music Education**

**MUS-2313 Music Theory III**

**MUS-2314 Music Theory IV**

**MUS-2330 Elementary Voice Class**

**MUS-2350 Music Theater Production**

**MUS-2361 Instrumental Techniques I**

**MUS-2362 Instrumental Techniques II**

**MUS-2810 Internship in Music**

**MUS-2910 Independent Study in Music**

**MUS-3031 History of Western Music I**

**MUS-3032 History of Western Music II**

**MUS-3040 Jazz in America**

**MUS-3050 The Social History of Rock & Roll**

**MUS-3060 Vocal Pedagogy**

**MUS-3080 Choral Literature**

**MUS-3130 Composition**

**MUS-3140 Arranging/Orchestration**

**MUS-3160 Elementary School Music Methods**

**MUS-3210 Secondary School Music Methods**

**MUS-3215 Technology for the Music Classroom**

**MUS-3220 History of Blues**

**MUS-3230 Survey of American Musical Theater**

**MUS-3240 Applied Music Lessons**

**MUS-3260 Music Theater Workshop**

**MUS-3270 Choral Methods**

**MUS-3272 Studio Recording II**

**MUS-3310 Band Methods**

**MUS-3330 Worlds of Music**

**MUS-3350 Music of the Americas**

**MUS-3401 Conducting I**

**MUS-3402 Conducting II**

**MUS-3510 Junior Recital**

**MUS-3710 Special Topics in Music**

**MUS-4010 Music Theater Production**

**MUS-4020 Final Production in Studio Recording**

**MUS-4030 Applied Music Lessons**

**MUS-4420 Seminar in Professional Preparation for Music Education**

**MUS-4720 Senior Recital**

**MUS-4810 Internship in Music**

**MUS-4910 Independent Study in Music**

## **Outdoor Education & Recreation**

**OER-1000 Introduction to Outdoor Education**

**OER-1030 Outdoor Education Activities**

**OER-1050 Hiking & Camping**

**OER-1060 Ropes Course**

**OER-1061 Backpacking**

**OER-1070 Orienteering**

**OER-1090 FYS: Deep Survival: Wilderness Lessons for a Complex World**

**OER-1131 Rock Climbing I**

**OER-1161 Whitewater Kayaking**

**OER-1162 Coastal Kayaking**

**OER-1165 Coastal Kayak Guide Training**

**OER-1170 Ice Climbing**

**OER-2050 Rock Climbing Instructor**

**OER-2060 Wilderness First Responder**

**OER-2062 Advanced Backpacking**

**OER-2080 Advanced Rock Craft**

**OER-2140 Ropes Course Leadership**

**OER-2810 Internship in Outdoor Education**

**OER-2910 Independent Study in Outdoor Education**

**OER-3010 Learning in the Outdoors**

**OER-3020 Program Planning in Outdoor Education**

**OER-3070 Adventure Education Theory & Practice**

**OER-3090 Leave No Trace Master Educator**

**OER-3150 Winter Expedition**

**OER-4030 Wilderness Leadership Techniques**

**OER-4710 Special Topics in Outdoor Education & Recreation**

**OER-4810 Internship in Outdoor Education**

**OER-4830 Outdoor Education Teaching Assistant**

**OER-4900 Research in Outdoor Education**

**OER-4910 Independent Study in Outdoor Education**

## **Philosophy**

**PHI-1010 Introduction to Philosophy**

**PHI-1030 Introduction to Logic**

**PHI-1040 Introduction to Ethics**

**PHI-2910 Independent Study in Philosophy**

**PHI-3150 Philosophy Through Literature**

**PHI-4910 Independent Study in Philosophy**

## **Physical Education**

**PED-1010 Physical Education Activities**

**PED-1150 Foundations of Physical Education**

**PED-2030 Educational Games, Dance & Gymnastics**

**PED-2040 Team Sports**

**PED-2110 Individual, Dual & Lifetime Activities**

**PED-2810 Internship in Elementary Physical Education**

**PED-2810 Internship in Physical Education for Exceptional Populations**

**PED-2910 Independent Study in Physical Education**

**PED-3070 Methods of Teaching Elementary Physical Education**

**PED-3120 Measurement & Evaluation**

**PED-3140 Methods of Teaching Secondary School Physical Education**

**PED-4910 Independent Study in Physical Education**

**Physics**

**PHY-1041 Physics I**

**PHY-1042 Physics II**

**PHY-2910 Independent Study in Physics**

**PHY-4910 Independent Study in Physics**

## **Political Science**

NOTE: Upper-level (3000/4000) courses in Political Science are offered on a rotating basis, generally every other year.

**POS-1010 Introduction to Political Science**

**POS-1020 American Politics & Government**

**POS-1030 Comparative Government**

**POS-1040 African-American History & Politics**

**POS-2010 Observation of the Legislative Process**

**POS-2040 International Relations**

**POS-2050 International Economics & Politics**

**POS-2110 State & Local Government**

**POS-2810 Internship in Political Science**

**POS-2910 Independent Study in Political Science**

**POS-3010 Survey of Western Political Thought**

**POS-3025 Research Design & Analysis**

**POS-3030 Contemporary Political Theory: Race, Class & Gender**

**POS-3040 The Politics of Gender**

**POS-3050 Environmental Ethics & Politics**

**POS-3060 Vermont Politics**

**POS-3070 Terrorism, Religion & the Nation-State**

**POS-3130 Church & State Separation: The First Amendment to the U.S. Constitution**

**POS-3150 Campaigns & Elections**

**POS-3160 Modern Politics through Drama & Fiction**

**POS-3170 U.S. Constitutional Law**

**POS-3180 Politics in Film**

**POS-3210 Canadian Politics**

**POS-3220 Genocide: Inhumanity Across the Ages**

**POS-3230 Third World Politics**

**POS-3270 Revolutions, Transformed Economics & Social Change**

**POS-4010 American Foreign Policy**

**POS-4020 International Relations**

**POS-4730 Senior Seminar in Political Science**

**POS-4810 Internship in Political Science**

**POS-4910 Independent Study in Political Science**

## **Psychology**

**PSY-1010 Introduction to Psychology**

**PSY-1035 The Psychology Major**

**PSY-2040 Social Psychology**

**PSY-2070 Developmental Psychology**

**PSY-2410 Research Methods in Psychology**

**PSY-2810 Internship in Psychology**

**PSY-2910 Independent Study in Psychology**

**PSY-3010 Theories of Personality**

**PSY-3030 Organizational Psychology**

**PSY-3065 Abnormal Behavior**

**PSY-3110 Adulthood & Aging**

**PSY-3125 The Evolution of Psychology**

**PSY-3140 Play & Its Role in Human Development**

**PSY-3230 Psychology of Gender**

**PSY-3250 Multicultural Psychology**

**PSY-3330 Psychology of Addictions**

**PSY-3345 The Psychology of Groups**

**PSY-4010 Biological Psychology**

**PSY-4090 Controversial Issues in Psychology**

**PSY-4110 Creative Therapies**

**PSY-4151 Counseling**

**PSY-4330 Introduction to Clinical Skills**

**PSY-4340 Fundamentals of Community Mental Health**

**PSY-4760 Topical Seminar in Psychology**

**PSY-4770 Senior Seminar in Psychology**

**PSY-4810 Internship in Psychology**

**PSY-4910 Independent Study in Psychology**

## **Science**

**SCI-2910 Independent Study in Science**

**SCI-4910 Independent Study in Science**

## **Social Science**

Courses not included in traditional disciplines of anthropology, psychology or sociology are designated social science courses (SSC). These multi-disciplinary courses are an important component of our curriculum and may be used to meet degree requirements in anthropology and sociology (ANS) and/or psychology (PSY).

**SSC-1020 Career Choices**

**SSC-1050 FYS: A Call to Action**

**SSC-1060 FYS: All Grown Up? Exploring Your Quarter Life Crisis through Psychology & Literature**

**SSC-3150 Sociodrama**

## **Sociology**

**SOC-1010 Introduction to Sociology**

**SOC-1040 Integrative Health & Professional Series**

**SOC-2040 Race/Ethnicity, Class & Gender**

**SOC-2050 Drugs, Herbs & Society**

**SOC-2140 Sociolinguistics**

**SOC-2150 Civic Engagement: The Heart of Social Change**

**SOC-2810 Internship in Sociology**

**SOC-2910 Independent Study in Sociology**

**SOC-3020 Environment & Society**

**SOC-3040 Social Movement, Culture & Activism**

**SOC-3050 Gender & Society**

**SOC-3060 Sexuality & Intimacy**

**SOC-3080 Wellness & Alternative Medicine**

**SOC-3130 Mass Media & Society**

**SOC-3170 Power, Politics & Inequality**

**SOC-3230 Alternative Medicine, Science & Disease**

**SOC-3240 Nutrition, Food & Society**

**SOC-3250 To War and Back**

**SOC-4010 Family Violence**

**SOC-4020 Sociological Theory**

**SOC-4030 Global Health, Diversity & Policy**

**SOC-4730 Topical Seminar in Sociology**

**SOC-4740 Senior Integrative Health Care Seminar**

**SOC-4810 Internship in Sociology**

**SOC-4910 Independent Study in Sociology**

## **Spanish**

**SPA-1011 Spanish I**

**SPA-1011L Spanish I**

**SPA-1012 Spanish II**

**SPA-1012L Spanish II**

**SPA-2011 Spanish III**

**SPA-2011L Spanish III**

**SPA-2012 Spanish IV**

**SPA-2012L Spanish IV**

**SPA-2910 Independent Study in Spanish**

**SPA-4910 Independent Study in Spanish**

## **Theater Arts**

**THA-1040 Interpreting Contemporary Dramatic Literature**

**THA-1041 Introduction to Theater Arts**

**THA-1111 Stagecraft**

**THA-2020 Theater Lab**

**THA-2035 Costume Construction & Stage Makeup**

**THA-2040 Performance & Production Lab**

**THA-2121 Acting I**

**THA-2121L Acting I Lab**

**THA-2122 Acting II**

**THA-2810 Internship in Theater**

**THA-2910 Independent Study in Theater**

**THA-3010 Shakespeare: On the Stage & On the Page**

**THA-3030 Theater for Young Audiences**

**THA-3040 Improvisation for Actors**

**THA-3110 Dramatic Literature: Classical/Modern**

**THA-3123 Acting III**

**THA-3130 Introduction to Design: Costume, Scenic, and Stage Lighting**

**THA-3140 Theater History**

**THA-3150 Introduction to Stage Management**

**THA-3210 Introduction to Directing**

**THA-3710 Special Topics in Theater**

**THA-4010 Performance & Production Lab**

**THA-4050 Theater Lab**

**THA-4720 Senior Project in Theater**

**THA-4730 Seminar in Professional Preparation for the Actor**

**THA-4810 Internship in Theater**

**THA-4910 Independent Study in Theater**

## **Placement Track**

This type will be used to designate PLE and PLM courses, which are placement levels in English and math assigned at the time of admission.

**PLE-0003 English Placement, Level 3**

**PLE-0004 English Placement, Level 4**

**PLM-0001 Mathematics Placement, Level 1**

**PLM-0002 Mathematics Placement, Level 2**

**PLM-0003 Mathematics Placement, Level 3**

**PLM-0004 Mathematics Placement, Level 4**

**PLM-0005 Mathematics Placement, Level 5**

## **Degree Requirements**

This is used for only ENG-3999 (Writing Proficiency Exam) and GRS-3000 (TILT).

**ENG-3999 Writing Proficiency Exam**

**GRS-2000 Quantitative Reasoning Assessment (QRA)**

**GRS-3000 The Information Literacy Tutorial (TILT)**

## **Wellness & Alternative Medicine**

**WAM-2010 Native American Healing - The Lakota & Shamanic Traditions**

**WAM-2020 Chinese Medicine & Acupuncture I**

**WAM-2030 Wellness Lifestyle & Career Seminar**

**WAM-2040 Introduction to Meditation**

**WAM-2050 Herbs: The Medicine Garden**

**WAM-2060 Naturopathic Medicine**

**WAM-2070 Massage & Bodywork**

**WAM-2080 Homeopathy I**

**WAM-2810 Internship in Wellness & Alternative Medicine**

**WAM-3010 Living the Good Life**

**WAM-3020 Chinese Medicine & Acupuncture II**

**WAM-3025 Epigenetics: Diet, Lifestyle & Environment**

**WAM-3030 Applied Herbal Pharmacology**

**WAM-3040 Mindfulness Meditation**

**WAM-3050 Herbalism, Wellness & Healing**

**WAM-3060 Healing All Wounds: Global Humanitarian Aid and Warzone Medicine**

**WAM-3070 Massage, Science & Wellness**

**WAM-3080 Homeopathy II**

**WAM-4810 Internship in Wellness & Alternative Medicine**

**WAM-4810 Internship in Wellness & Alternative Medicine**

## **Other Courses**

**WFD-1010 Foundations of Furniture Design I**

## **General Education Requirements**

Johnson State College's General Education Curriculum (GEC), a program of integrative learning, addresses the accelerating pace of change in all areas of society at the local, national and global levels. The goals and outcomes of the GEC are designed to equip graduates with the skills to flourish in a world marked by constant innovation and global interdependence.

As the mission statement for the College's GEC states, "In order to help students enrich their lives and become fully engaged citizens of their world, the Johnson State College General Education Program strengthens the foundations of written and oral communication, mathematics and quantitative reasoning, and understanding of the scientific method. It complements the depth of the [student's chosen] major with a breadth of experiences that cross disciplinary boundaries and emphasize connections between the student and the community."

### **Essential Learning Outcomes for Students:**

1. Broad knowledge of human cultures and the natural and physical world, including social sciences, natural sciences, mathematics, humanities, histories and the arts;
2. Intellectual and practical skills, including effective writing, inquiry, quantitative and information literacy, and teamwork and problem solving;
3. Integrative learning, including the capacity to adapt knowledge, skills and responsibilities to new settings and questions.

(Adapted from *College Learning for the New Global Century*, Association of American Colleges and Universities, 2007)

**There are two General Education programs in place at Johnson State College:**

- General Education Curriculum for Campus-Based Students
- General Education Curriculum for Distance Learning Students (JSC Online and EDP)

## **Degree Requirements**

Johnson State College offers students three pathways to an undergraduate degree:

**On campus at JSC**, students can choose among dozens of bachelor degree programs, several associate degree programs, two certificates and several teacher-education programs that provide endorsement for a Vermont teaching license -- all while taking advantage of the College's many services, programs and activities.

**Off campus, through JSC's External Degree Program**, students with at least 60 credits can complete a bachelor's degree in one of our undergraduate majors available statewide, earn their teaching endorsement, and/or complete a Certificate of Proficiency in Accounting to earn state licensure and prepare to sit for the national Certified Public Accountant (CPA) exam. Classes are offered online, on weekends at Community College of Vermont academic centers throughout Vermont, and on the JSC campus. Multiple course starts throughout the year, flexible scheduling options and EDP's maximum use of transfer credits make this program a popular option for adult learners.

**Nationwide and internationally, through JSC Online**, students can complete a bachelor's degree in one of JSC's undergraduate degree-completion programs available entirely online. All classes are taught online, with any internship requirements arranged through the student's JSC Online advisor and completed in the student's local area. As with EDP, adult students are attracted to the program's multiple course starts, flexible scheduling options, and liberal transfer-credit policies.

## **Requirements for a Bachelor's Degree**

### **For Campus-Based Students**

- Completion of at least 120 credit hours of work (not including basic skills credits).
- Achievement of a minimum cumulative grade point average of 2.00 (on a scale where A equals 4.00).
- Completion of the General Education Curriculum.
- Completion of bachelor-level Graduation Standards.
- Completion of all course work in the major.
- At least 30 credits applying toward the degree must be earned from Johnson State College.
- At least 39 credits must be at the 3000/4000 (upper) level.

### **For Distance Learning (DL) Students**

- Completion of at least 120 credit hours of work (not including basic skills credits).
- Achievement of a minimum cumulative grade point average of 2.00 (on a scale where A equals 4.00).
- Submission and approval of an individualized degree plan (for Professional Studies and Interdisciplinary Studies majors only).
- Completion of the DL General Education Requirements.

- Completion of bachelor-level Graduation Standards.
- Completion of all course work in the major.
- At least 30 credits applying toward the degree must be earned from Johnson State College.
- At least 39 credits must be at the 3000/4000 (upper) level.

## Requirements for an Associate's Degree

- Completion of at least 60 credit hours of course work (not including basic skills credits).
- A minimum cumulative grade point average of 2.00 (on a scale where A equals 4.00).
- At least 30 of the credits applying toward the degree must be earned from Johnson State College.
- Students in the Associate of Arts (A.A.) in General Studies program must complete the First-Year Seminar Course, Creative Audience, all of the Foundational Skills components of the General Education Curriculum (GEC), and six credits each from the Aesthetic, Global and Social & Historical perspectives (see General Education curriculum). Students in all other associate's programs must complete the First-Year Seminar Course, Creative Audience, the Foundational Skills -Written Expression and Foundational Skills-Natural Sciences components of the GEC, one math course from the Foundational Skills-Mathematics component of the GEC, and three credits each from the Aesthetic, Global and Social & Historical perspectives (see General Education curriculum).
- Completion of associate-level Graduation Standards.

## Requirements for Earning a Second Degree

### A Second Bachelor's Degree

Students who already hold a bachelor's degree from another institution or from Johnson State College may earn a second degree by completing the following requirements:

- Completion of at least an additional 30 credits through Johnson State College.
- Completion of the requirements of a major unique from the first bachelor's degree major.
- Achievement of a minimum cumulative grade point average of 2.00.

Note that requirements for double majors also may apply.

### A Second Associate's Degree

Students who already hold an associate's degree from another institution or from Johnson State College may earn a second degree by completing the following requirements:

- Completion of at least an additional 15 credits at Johnson State College.
- Completion of the requirements of a major unique from the major of the first associate's degree.
- Achievement of a minimum cumulative grade point average of 2.00.

Note that requirements for double majors also may apply.

## Requirements for a Double Major

Students wishing to earn a degree with a double major must meet the following requirements:

- Completion of degree requirements as listed under *Requirements for a Bachelor's Degree*.
- Completion of the requirements of two unique majors.
- For baccalaureate degrees, at least 30, and for associate's degree, at least 15, of the credits used to complete each major must be in courses not used to meet the requirements in the other major.

## Requirements for Academic Minors

An academic minor consists of a minimum of 18 credits in a discipline or field, at least six of which are at the 3000/4000 level. In general, students may not use the same courses used to satisfy requirements in a major to also satisfy requirements in a minor. Any questions should be referred to the department chair of the department sponsoring the minor. (See list of Academic Programs.)

## Graduation Standards

Johnson State College strives to ensure that all students achieve and be able to demonstrate their mastery of important skills. This commitment is consistent with the mandate of the trustees and presidents of the Vermont State Colleges (VSC), including Johnson State College, that all students must satisfy graduation standards in four areas: writing, quantitative reasoning, information literacy and oral communication. As a mandate of the Board of Trustees and the Council of Presidents, the requirement to satisfy graduation standards supersedes all other catalog statements concerning academic regulations and requirements. Successfully fulfilling graduation standards at one VSC institution is accepted as fulfilling the standards at any other VSC institution for an equivalent associate's or bachelor's degree.

All students must satisfy the following graduation standards in order to graduate:

- **Writing:** All baccalaureate- and associate-level students must pass ENG 3999, the Writing Proficiency Exam, or ENG 2005 The Self-Sufficient Writer course. The Writing Proficiency Exam is offered every semester on a pass/no pass basis. Students should take the exam when they have accumulated between 15-60 credits to ensure completion of this standard. Students who fail the exam once may attempt it a second time; those who fail twice must take and pass ENG 2005 The Self-Sufficient Writer .
- **Quantitative Reasoning:** All baccalaureate- and associate-level students must pass the Quantitative Reasoning Assessment (QRA) or MAT 1080 Introduction to Quantitative Reasoning. In addition, all baccalaureate-level students must pass one course designated as "quantitatively enriched." (Courses identified with a "QE" prefix are approved as quantitatively enriched.) Note: Unlike MAT-1080, the QRA does not count toward the "Foundational Skills: Mathematics" component of the General Education Curriculum.
- **Information Literacy:** All baccalaureate- and associate-level students must complete GRS 3000, the Information Literacy Tutorial (TILT) and score 80% or higher on each of the accompanying quizzes. TILT and the quizzes are available to students on the VSC Moodle site after registering for a section of GRS-3000. *It is recommended that students take TILT during their first year at JSC.*
- **Oral Communication:** All baccalaureate- and associate-level students must receive passing scores on the Oral Communication Grading & Evaluation Form. Baccalaureate students must complete *two* oral presentations, each at least five minutes long; associate-level students must complete *one* oral presentation.

Currently enrolled students may obtain comprehensive information about JSC graduation standards by consulting "JSC Graduation Standards," on the MyJSC Portal at <http://MyJSC.jsc.edu>. In addition, JSC occasionally may email students via their JSC email addresses about the required graduation standards and the steps required to satisfy them.