
COLLEGE OF ARTS AND SCIENCES

Reinhold Hill, Dean

The primary mission of the College of Arts and Sciences (CAS) at Governors State University is to provide quality instruction for a diverse student population in disciplines that are at the heart of the university - the liberal arts and sciences.

The College of Arts and Sciences faculty, staff, and students achieve this mission through excellence in teaching and learning processes and scholarship, while both creating and applying new knowledge and engagement through service and exchange.

In all these endeavors emanating from the university's mission, the college seeks to:

- prepare its graduates to succeed as lifelong learners, professionals, informed consumers, and responsible citizens;
- admit to its programs an academically proficient population of students pursuing post-secondary education;
- reach out to an expanded audience of learners through utilization of a variety of print, electronic, and other distance learning technologies;
- play a leadership role in the region and state's economic and social development;
- promote human and intellectual diversity by providing equal access and opportunity to representatives of a rich variety of populations and cultures; and
- contribute to the welfare and advancement of human societies throughout the region, the state, and the world.

The College of Arts and Sciences assumes a leading presence both in the region and the State of Illinois by reinforcing the strengths of its arts, humanities, sciences, and interdisciplinary programs.

To this end, CAS sponsors educational events and provides extracurricular activities for students and residents of the region. The calendar of events includes the CAS Distinguished Lecture Series, art exhibits, workshops, and symposia on a wide range of subjects related to the humanities and the social, natural, and physical sciences. Throughout the year, the intellectual life of the university community is enriched by the College of Arts and Sciences.

The college is committed to creative exploration of important issues and developments; addressing diverse topics such as language and culture, the environment, new communications/information technologies, and local, national, and global structures; and processes discovering the interconnections. Through sponsored activities and the individual actions of students and faculty, the College of Arts and Sciences continues to play a leadership role in the university's process of addressing the concerns of our time, their identification, their investigation, and their ultimate solutions.

Graduate Programs

Analytical Chemistry (M.S.)
 Art (M.A.)
 Communication and Training (M.A.)
 Communication Studies
 Media Communication
 Human Performance and Training
 Computer Science (M.S.)
 Criminal Justice (M.A.)
 English (M.A.)
 Environmental Biology (M.S.)
 Independent Film and Digital Imaging (M.F.A.)
 Mathematics (M.S.)
 Political and Justice Studies (M.A.)

Certificates

Biology Education
 Chemistry Education
 Digital Forensics
 English Education
 Information Security
 Mathematics Education
 Restorative Justice

Faculty of the College of Arts and Sciences

Division of Communication, Visual and Performing Arts

Lori Montalbano, Chairperson

Professors

Emmanuel Alozie
 Jane Rhoades Hudak
 Tony Labriola
 Dan Nearing

Associate Professors

Yvette Brown
 Javier Chavira
 Mary Lanigan
 Sang Hoon Lee
 Lori Montalbano
 Beth Parin
 David Rhea
 Jason Zingsheim

Assistant Professors

Leanne Cambric
 Jayne Goode
 Deborah James
 Patrick Santoro

Lecturers

Arness Krause
 Anthony Edison
 Alexander Glumac
 Mike Hart
 Sharon Hudson
 Gretchen Jankowski
 Michele McMaster
 Jerry Slowik

Division of Humanities and Social Sciences

Andrae Marak, Chairperson

Professors

James R. "Chip" Coldren, Jr.
 Frances Kostarelos
 Larry Levinson
 Rashidah Jaami' Muhammad

Associate Professors

Daniel Cortese
 Donald Culverson
 Rosemary Johnsen
 Elizabeth Johnson
 Andrae Marak
 Kerri Morris
 Bruce Wilson

Assistant Professors

Amanda Athon
 Ben Almassi
 Duane Davis
 David Golland
 Vincent Jones
 Khalil Marrar
 Nabil Ossani
 Joao Salm
 Bradley Smith
 Brian Vivona
 Christopher T. White

Visiting Professor

Matthew Thiele

Lecturers

Bill Craig
 John Edwards
 Cheryl Hague
 William Kelley
 Caron Jacobson
 Milan Panic
 Christina Sintic
 Robin Thompson
 Laura White

Division of Science

Yun-Yau (Steve) Shih, Chairperson

Professors

Mary Carrington
 Xiaoyong Chen
 Karen D'Arcy
 Timothy Gsell
 Phyllis Klingensmith
 Shailendra Kumar
 Soon-Ok Park
 Yun-Yau (Steve) Shih
 Xueqing (Clare) Tang
 Kong-Cheng Wong
 John Yunger

Associate Professors

Dianne Galante
 Pamela Guimond
 Andrius Tamulis

Assistant Professors

Walter Henne
 Sanjaya Ranmohotti
 Angela Renee Thompson
 Chris Tweddle
 Joong-Won Shin

Lecturers

Victor Akatsa
 Richard Baisa
 Michael Blomarz
 Richard Fox
 Diane Gohde
 Steve Hynzy
 Stephen Kent
 Robert Kaufmann
 Nancy Paus
 Kevin Riley
 Aheda Saber
 Aslam Shahid
 George Sweiss
 Tina Whitney

DEGREE REQUIREMENTS FOR GRADUATE PROGRAMS

The university degree requirements for graduate programs are listed in the Master's Degree Requirements section of this catalog. Requirements for specific degree programs follow.

Master of Science in Analytical Chemistry

The graduate major in Analytical Chemistry prepares students for employment as analytical chemists in public and private laboratories that specialize in the application of wet chemical and instrumental procedures to problem solving. This graduate major is designed to build upon an undergraduate background in chemistry or a related field, providing a theoretical base in analytical chemistry while emphasizing practical experience with analytical instrumentation. Hands-on experience with instrumentation is the focus of the curriculum and is its most important asset. Recognizing the importance of future genetic engineering technology and the analytical techniques that will need to be developed to support it, the curriculum also has a biochemistry component.

Faculty research interests range widely and include topics such as spectrochemistry, ion chromatography and liquid chromatography/mass spectrometry, electrochemistry, analysis of metals in the environment, water analysis, biochemistry, molecular modeling, science education, photo-oxygenation chemistry, fullerene chemistry, photochemistry, bio-inorganic chemistry, trace analysis of organic pesticides, and proteomics/genomics.

Required Preparation

Before admission, applicants should have completed the following course work with a grade of "B" or better in each course: at least four hours of analytical chemistry with lab (CHEM3233, CHEM3234); eight hours of physical chemistry with lab (CHEM3641, CHEM3642, CHEM3643, CHEM3644); eight hours of organic chemistry with lab (CHEM3531, CHEM3532, CHEM3533, CHEM3534); three hours of biochemistry (CHEM4331); three hours of advanced inorganic chemistry (CHEM4443); three hours of statistical methods (STAT4219/6219); three hours of computer science; and one hour of chemical literature (equivalent to CHEM4155). Students lacking one or more of these courses or having less than a "C" in a course may be admitted to the program. However, they will have to complete or repeat the appropriate course(s) at Governors State University. All students are conditionally admitted until course review is completed and placement exam requirements are satisfied.

Placement Exams

All conditionally admitted students enrolled in the M.S. Analytical Chemistry program will be required to take placement exams in organic chemistry, physical chemistry, analytical chemistry, inorganic chemistry, and biochemistry. These multiple choice exams were developed by the American Chemical Society to assess entering graduate students and cover the course content in the various fields of chemistry at the undergraduate level. Students who show a deficiency in these areas will be required to take and earn a minimum grade of B in the respective undergraduate course(s): Organic Chemistry Lecture and Laboratory I and II (CHEM 3531, 3532, 3533, 3534); physical chemistry: Physical Chemistry Lecture and Laboratory I & II (CHEM 3641, 3642, 3643, 3644); analytical chemistry: Analytical Chemistry Lecture and Laboratory (CHEM 3233, 3234); and either inorganic chemistry: Advanced

Inorganic Chemistry (CHEM 4443) or biochemistry: Biochemistry (CHEM4331). The deficiency courses should be taken within the five terms of initial registration. Students who do not receive the grades of "B" in the deficiency courses within the prescribed time may be dropped from the program. The new students who have earned a bachelor's degree in chemistry and who have received the grades of "B" or better in organic chemistry, physical chemistry, analytical chemistry, inorganic chemistry, and biochemistry may opt to not participate in the respective exam(s).

Thesis/Project/Internship Option

As part of this degree program, students must choose between a thesis, project, or internship option.

In the thesis option, students develop a thesis proposal usually related to a faculty member's research, carry out a formal research study under the supervision of the faculty member and a degree committee, prepare a final manuscript, and make a presentation in CHEM8997: Research Presentation in Chemistry. The thesis option would be appropriate for students who have focused research interests or who intend to pursue doctoral study.

In the project option, students develop a master's project proposal, complete a master's project in conjunction with a faculty member, and prepare a final report. The project student makes a presentation of the relevant literature in CHEM8997: Research Presentation in Chemistry.

In the chemistry literature project option, students identify a chemistry project related to the one or more courses of the master's degree study in analytical chemistry, do an in depth current literature inquiry, and prepare a final report with discussions including their own conclusions including future developments. The minimum time for the research project is one term. The chemistry literature project students make a presentation of the relevant literature in CHEM8997: Research and Presentation in Chemistry.

In the internship option, students identify an internship sponsor, complete an internship application and proposal, and, once accepted, complete the internship under the joint guidance of the site supervisor and GSU faculty sponsor. A final written report and presentation in CHEM8997 Research Presentation in Chemistry is required.

Admission to Candidacy

1. completed the required preparation listed above;
2. completed the required courses listed in section I. below with a G.P.A. of 3.0 or higher; and
3. completed an approved proposal for a thesis, a project, or an internship.

More detailed candidacy information is available through the division office or the student's advisor.

Degree Requirements

Students must meet all university requirements for a master's degree.

- I. Required Courses (13 Hours)
- CHEM 6443 Inorganic Spectroscopy (2)
 - CHEM 6444 Inorganic Spectroscopy Laboratory (1)
 - CHEM 6543 Organic Spectroscopy (2)
 - CHEM 6544 Organic Spectroscopy Laboratory (1)
 - CHEM 6733 Chromatography (3)
 - CHEM 6734 Chromatography Laboratory (1)
 - CHEM 8157 Methods Development and SPC (3)
- II. Chemistry Selectives (10 to 15 Hours)
- CHEM 6333 Analytical Biochemistry (2)
 - CHEM 6334 Analytical Biochemistry Laboratory (1)
 - CHEM 6752 Practical Chemistry Instrumentation (1)
 - CHEM 8733 Mass Spectrometry (3)
 - CHEM 8734 Mass Spectrometry Laboratory (1)
 - CHEM 8753 Electrochemistry (3)
 - CHEM 8754 Electrochemistry Laboratory (1)
 - CHEM 8763 NMR Spectroscopy (2)
 - CHEM 8764 NMR Spectroscopy Laboratory (1)
- III. Advanced Selectives (4 to 9 Hours)
- Select at least 4 hours from the following courses:*
- BIOL 6641 Toxicology (3)
 - CHEM 6552 Chemistry Software and Molecular Modeling (1)
 - CHEM 7537 Advanced Organic Chemistry (3)
 - CHEM 7557 Chemistry of Biomolecules (3)
 - CHEM 7667 Photochemistry(3)
 - CHEM 8057 Special Topics (3)

Other graduate-level science courses as approved by the academic advisor. Students may not take more than one credit hour towards CHEM 5035: Chemistry Workshop.

- IV. Thesis/Project/Internship Option (4 -7 Hours)
- Students in the thesis option take 7 hours from this section, and select a minimum of 16 hours from Sections II and III above.

All other students take 4 hours from this section and select a minimum of 19 hours from Sections II and III above.

- CHEM 8930 Graduate Chemistry Literature Project (3)
- CHEM 8950 Graduate Research Project (3)
- CHEM 8959 Graduate Thesis Literature Search (1)
- Or
- CHEM 8960 Graduate Thesis (3)
- CHEM 8997 Research Presentation in Chemistry (1)
- Or
- CHEM 8940 Chemistry Internship (3)
- CHEM 8997 Research Presentation in Chemistry (1)

Total - 36 Hours

Master of Arts in Art

The graduate major in art stresses intellectual curiosity, self-discipline, and technical proficiency. With course work in painting, printmaking, photography, digital imaging, sculpture or ceramics, the art studio student is directed to become a mature artist in command of the medium and capable of expressing an individual view.

Students are encouraged to develop perception and imagination, combined with an awareness of visual elements, principles of design, artistic statement, and criticism.

The graduate art program enables students either to become practicing artists or to achieve a level of scholarship that can help them to be art experts or professional educators. With a growing interest and expanding use of the arts in contemporary life, the employment outlook for art majors continues to be promising.

Classes in art history treat art objects as historical documents related in subject, style, technique, and material to other works of art and interpret their context and purpose. Courses range from contemporary international and regional artistic expressions to those of ancient America, Africa, and Asia. Students with an interest in art history elect a specific subject area.

Special Admission Requirements

In addition to meeting university criteria, applicants must:

1. have an undergraduate major in one of the humanities; and
2. have submitted a proposal, acceptable to the degree program advisor, that outlines academic goals with supporting rationale and plan of study and includes examples of previous work (e.g., sculptures, research papers, drawings, prints, or paintings, etc.).

Students will not be admitted to the major until the proposal reflecting potential for graduate work has been approved by the degree program advisor.

Thesis Requirement

As part of this degree program, students are to select with advisor's approval either an art history or studio option.

The art history thesis consists of an analytical and historical approach to the study of a particular artist, art object, movement, or theme in the visual arts. In the thesis option, the student develops a thesis proposal in an area of art history acceptable to the program advisor, completes a research project, and prepares a formal thesis manuscript.

In the art studio option, the student prepares a one-person exhibition of a consistent body of work in the student's area of interest and written documentation of the work and development.

Admission to Candidacy

Application for candidacy should be made after nine hours of graduate studio or graduate art history courses have been completed. To qualify for degree candidacy, a student must:

1. complete nine hours of graduate studio or graduate art

- history courses with a G.P.A. of 3.0 or higher; and
 2. complete an approved thesis proposal.

More detailed candidacy information is available through the student's advisor.

Degree Requirements

Students must meet all university requirements for a master's degree.

I. Required Courses (15 Hours)

ART 6615	Contemporary American Ideas and Cultures (3)
ART 8805	Art and Society (3)
ART 8810	Studies in Art (3)
ART 8820	Art Seminar (3)
ART 8990	Graduate Thesis (3)

II. Non-Western Art Selective (3 Hours)

Select one of the following:

ART 6521	Art and Cultures of the South Pacific (3)
ART 6523	Pre-Columbian Art and Cultures (3)
ART 6525	Native American Art and Societies (3)
ART 6527	African Art and Cultures (3)
ART 6530	Asian Art and Thought (3)

III. Art Selectives (14 Hours)

Select 14 hours from courses in one of the following areas with advisor's approval:

Art History
 Ceramics
 Digital Imaging
 Painting/Drawing Photography
 Printmaking
 Sculpture

IV. Total - 32 Hours

Master of Arts in Communication and Training

The graduate major in Communication and Training provides an in-depth study leading to specialized knowledge and skills. Students have the opportunity to receive a broad theoretical framework in their field as well as the specific skills needed in the professional world.

The major prepares students as working professionals through three sequences: Communication Studies, Media Communication, and Human Performance and Training. The major also prepares students for further graduate study in the communications and training fields. Beyond taking the common required courses, students adapt the major to their individual needs and backgrounds by pursuing one of the three sequences and choosing appropriate elective courses. Students plan their specific programs in consultation with their advisors. Graduates of the program are in career areas such as advertising, cable TV, college teaching, consulting, customer service, film-making, human resource development, instructional design and development, journalism, media management, media writing, public affairs, public relations, TV production/direction, and training.

The Communication Studies graduate sequence offers students the ability to understand themselves and the world they live in from the perspective of communication. It explores multiple aspects of human interaction in both private and public realms, assisting students to become effective citizens and leaders who exemplify ethical and professional communication practices. The graduate sequence in Media Communication facilitates advanced creative development and exposure to professional practices for students interested in the fields of television and cinema studies as well as multimedia writing, producing and directing. The Human Performance and Training sequence develops practitioners' skills in assessing employees' performances, determining performance gaps, designing and delivering training and non-training interventions and evaluating results.

It achieves these performance objectives by keeping up with corporate trends, such as delivering classes online using the latest technologies, in order to sustain the marketability of graduate students. HPT graduates work in all types of organizations, focusing on Performance Technology.

Recommended Preparation

An undergraduate major in one of the following fields is recommended: business, education, media, multimedia, communications, English, psychology, sociology, linguistics, or liberal arts. In addition, students are expected to have demonstrable competence in written, verbal, and visual forms of communication.

Special Admissions Requirements

In addition to meeting the university admissions requirements, applicants must:

1. have completed the following prerequisites (or equivalent) with a grade of "C" or better:
 - a. Students pursuing the Communication Studies sequence - COMS3100.
 - b. Students pursuing the Media Communication sequence - MCOM2520, MCOM4740 or MCOM4702; and MCOM4230 or MCOM4731.
2. have earned a GPA of 2.75 or higher in the last 60 hours of undergraduate course work. Applicants who do not meet the GPA requirements or who have graduated from non-grade baccalaureate programs may be conditionally admitted. A GPA of 3.0 must be maintained for the first nine credit hours of work completed. If a 3.0 GPA is not maintained, the student must petition the Communication and Training program for continued enrollment.
3. submit a Personal Statement. In this two-page essay, students should consider which of the three tracks (COMS; MCOM; HPT) they will be focusing on in their studies in the graduate Communication and Training program, and discuss their reasons for enrolling in the program and how they see completing the degree as beneficial to their life.

Applications for the program should be completed by August 1 for the fall term, December 1 for the spring term, and April 1 for the summer term.

Admission to Candidacy

After admission as a degree-seeking student, a student also must apply for candidacy. To qualify for degree candidacy, a student must:

1. complete the prerequisite course work listed above (see Special Admissions Requirement #1) with a grade of "C" or better in each course;
2. complete 15 hours of course work in the major with a GPA of 3.0 or higher.

More detailed candidacy information is available through the division office or the student's advisor.

Capstone Requirement: Internship, Thesis, or Project Options

As part of this degree program, students select between an internship, thesis or project capstone option, depending on the sequence chosen. Before enrolling in any capstone option, students must be admitted to candidacy (see above).

In the Communication Studies and Media Communication internship option, students select an internship and develop an internship agreement (similar to a thesis or project proposal). The internship agreement must be approved by the student's committee (composed of the student's internship director, site supervisor, and a faculty member). Upon committee approval of the internship agreement, the student may register for COMS8970. After successful completion of the internship hours, students must complete the internship report and portfolio.

In the thesis option, students develop a thesis proposal, carry out a formal research study under the supervision of the faculty member and a degree committee, and prepare a final manuscript. The thesis option is strongly encouraged for students who have focused research interests or who intend to pursue doctoral studies. Student may register for COMS8990 once the proposal has been approved by the student's thesis committee.

In the project option, students develop a master's project proposal, design and complete the project under the direction of a faculty member and a degree committee, and prepare a final report. Students may register for COMS8980 or HPT 8981/8982 once the proposal has been approved by the student's project committee.

Degree Requirements

Students must meet all university requirements for a master's degree and complete required and sequence courses with a grade of "B" or higher in each course and maintain an average GPA of 3.0. Students are only allowed to repeat a course once.

The M.A. in Communication and Training requires a common core of courses. The core concentrates on the essential connections between the sequences; awareness of the common aspects in research; and, finally, the application to various media and technology.

Some required and selective courses are offered only once per academic year. Students are strongly advised to register well in advance of the commencement of courses, and to

consult closely with their assigned advisors upon entering the program to ensure individual study plans are aligned with the university schedule.

Introduction courses should be taken in the student's first term (HPT6100 for HPT students; COMS6100 for COMS and MCOM students). No more than three credit hours of COMS5050 may be applied to the degree.

I. Required Courses (10-12 Hours)

HPT6100/COMS6100 Introduction to Graduate Communications and Training (3)
COMS 7110 Research Methods I (3)
COMS, MCOM, or HPT Capstone (4-6)

II. Sequence Courses (15-18 Hours)

Select one of the following sequences:

Communication Studies Sequence

In consultation with an advisor, student select at least 15 hours from the areas below. Of those 15 hours:

1. at least nine hours must be COMS Courses;
2. six hours must be at the 8000 level;
3. and no more than six hours may be taken at the 5000 level.

The following courses are suggestive of those that will fulfill this requirement.

A. Humanistic Communication

COMS 6090 Topics in Communication (3)
COMS 6125 Listening (3)
COMS 6135 Nonverbal Communication (3)
COMS 6140 Family Communication (3)
COMS 6330 Intrapersonal Communication (3)
COMS 6350 Gender Communication (3)
COMS 6425 Group and Leadership (3)
COMS 6435 Conflict Management (3)
COMS 6452 Clients and Customers (3)
COMS 8130 Interpersonal Communication (3)
COMS 8320 Communication and Consciousness (3)
COMS 8330 Advanced Communication and Consciousness (3)
COMS 8400 Organizational Communication (3)
COMS 8440 Interdisciplinary Team Process (3)
COMS 8460 Communication Training (3)

B. Political Communication

COMS 5090 Topics in Communication (3)
COMS 6500 Political Communication (3)
COMS 8060 Seminar in Political Communication (3)
COMS 8110 Research Methods II (3)

C. Critical/Cultural Communication

COMS 6090 Topics in Communication (3)
COMS 6705 Intercultural Communication (3)
COMS 6710 Culture and Communication (3)
COMS 6720 Communication and Identity (3)
COMS 6750 Critical Gender and Sexualities (3)
COMS 6780 Rhetoric and Popular Culture (3)
COMS 8070 Seminar in Critical/Cultural Communication (3)
COMS 8110 Research Methods II (3)
COMS 8190 Philosophy of Communication (3)
COMS 8790 Teaching Communication and Critical Pedagogy (3)
IFDI 8400 Film Seminar (3)
MCOM 6040 Film Seminar (3)
MCOM 6560 Women and the Media (3)
MCOM 6742 Film and TV Documentary (3)

Media Communication Sequence

In consultation with an advisor, students select at least 18 hours from the following:

COMS 8480	International Communications (3)
MCOM 6040	Film Seminar (3)
MCOM6070	Media Workshop (3)
MCOM6355	Seminar in Advertising and Public Relations (3)
MCOM6361	Advertising and Society (3)
MCOM6730	Directing (3)
MCOM6743	History of Film (3)
MCOM6746	Advanced Editing (3)
MCOM6760	Non-Broadcast TV Operations (3)
MCOM7455	Media Management (3)
MCOM7540	Trends in Communications Technologies (3)
MCOM7725	Advanced Producing for Film/TV (3)
MCOM8003	Contemporary Issues (3)
MCOM8030	Graduate Seminars in Media Communications (3)
MCOM8800	Internship (3)

Human Performance and Training Sequence:***

HPT 6150	Introduction to Human Performance and Training Technologies (3)*
HPT 6200	Training Product Design (3)*
HPT 7200	Needs/Task Analysis in Human Performance and Training (3)
HPT 7300	Evaluation/Cost Benefit Analysis in Human Performance and Training (3)
HPT 8200	Consulting and Teamwork in Human Performance and Training (3)

Select one credit hour from the following:

HPT 8600	Advanced Field Project (1)
HPT 8800	Internship (1)

*** Students in the HP&T sequence need to fulfill IBSTPI (International Board of Standards for Training, Performance, and Instruction) suggested standards by selecting 14 credit-hours of selectives from among the following:

COMS 8400	Organizational Communication (3)
HPT 5100	Training Topics (1-3)*
HPT 7100	Principles of Message Design (3)
HPT 7150	Project Management in Human Performance and Training (3)*
HPT 7190	Training Techniques (3)
HPT 7260	Scriptwriting for Instruction and Training (3)
HPT 7300	Evaluation/Cost Benefit Analysis in Human Performance and Training (3)
HPT 7400	Solving Performance Problems (3)
HPT 7450	Performance in Organizations (3)
HPT 8250	Research in Human Performance and Training (3)
HPT 8800	Internship (1-4)

III. Electives (9-12 Hours)

(If a student chooses the Human Performance and Training Sequence, the selectives listed above must be taken in place of electives.)

In consultation with the advisor, select 9 to 12 hours of graduate credit appropriate to the student's career interest(s). At least six hours must be taken within the Communications and Training program. Students must complete at least one 8000-level course as an elective.

* Indicated courses may be taken by graduate student in the Communication Studies or Media Communication sequences as an elective.

IV. Total - 36 Hours**Master of Science in Computer Science**

The graduate major in Computer Science is an applications-focused program with a software engineering orientation. It is designed to prepare students for employment as software engineering professionals in a wide range of business, industrial, and government settings.

It includes the theoretical base necessary to provide flexibility for meeting future professional needs, as well as enabling students to pursue doctoral studies at another institution should they wish to do so.

The program is designed for the practicing professional in the field. The principal themes are the design and development of software, systems programming, applications programming, and the effective use of software resources. As new kinds of computers emerge, software based on the most modern theories and procedures will be needed. Economic pressures will require effective and efficient linking of hardware and software systems. Those who best understand the development and management of software resources will be in the strongest position to derive benefits from these changes.

Faculty research interests range widely and include object-oriented programming, Windows programming, operating systems, artificial intelligence, information security, digital forensics, Internet programming, and database systems. Research interests are reflected in the regularly scheduled courses and the special topics courses offered by the faculty.

Special Admissions Requirements

In addition to meeting university admissions criteria, applicants must have completed a bachelor's degree with a G.P.A. of 2.75 or higher and maintained a G.P.A. of 3.0 or higher for any graduate work attempted.

Program Prerequisites

The graduate curriculum is based upon the completion of an undergraduate major in Computer Science that possesses a significant software engineering orientation. A bachelor's degree in Computer Science, however, is not required for admission into the graduate program. Students who have earned their baccalaureate degrees in other areas will be required to complete appropriate prerequisite courses in addition to those required for the master's degree. Essentially, applicants should have completed the equivalent of the following courses with a grade of "C" or better in each course:

CPSC 3148	Computer Programming in Java (3)
CPSC 3310	Introduction to Object-Oriented Programming (3)
CPSC 4190	Introduction to Software Engineering (3)
CPSC 4205	Computer Organization (3)
CPSC 4335	Operating Systems (3)
CPSC 4338	Discrete Structures (3)
CPSC 4342	Introduction to Computer Networks (3)
CPSC 4345	Database Systems (3)
CPSC 4355	Data Structures and Algorithms (3)

Other courses may appear among the prerequisites for elective courses and therefore be required.

Master's Final Project Option

As part of this degree program, students may choose between the graduate seminar option or the graduate thesis option.

In the graduate seminar option, students participate in a seminar class, developing a team project in conjunction with other classmates and the seminar faculty member, developing a project solution, and participating in a group presentation of the project. The seminar project will provide evidence of the ability and efforts to carry out a major application of theory or advanced methods in computer science. The seminar project is appropriate for students seeking to broaden their practical experience and work in a team setting similar to those encountered in the computer and information technology workplace.

In the project option, students develop a master's project proposal, complete the project in conjunction with a faculty member, and prepare a final report. This option allows students to broaden their practical experience and to gain more depth in a particular area of computer science in preparation for employment.

Admission to Candidacy

After admission as a degree-seeking student, a student also must be admitted to candidacy. To qualify for degree candidacy, a student must:

1. complete the prerequisite course work listed above with a grade of "C" or better in each course;
2. complete at least half of the courses listed under Required Courses below with a G.P.A. of 3.0 or higher; and
3. complete an approved proposal for a thesis topic or a master's project.

More detailed candidacy information is available through the division office or the student's advisor.

Degree Requirements

Students must meet all university requirements for a master's degree.

I. Required Courses (15 Hours)

CPSC 8720	Internet Programming (3)
CPSC 8735	Advanced Operating Systems (3)
CPSC 8810	Formal Languages and Applications (3)
CPSC 8820	Planning and Management of Software Projects (3)
CPSC 8845	Advanced Database Concepts (3)

II. Graduate Seminar/Thesis Option (3 or 6 Hours)

Select one of the following options:

Thesis Option (6 Hours):

CPSC 8900	Graduate Thesis (5)
CPSC 8990	Thesis Presentation in Computer Science (1)

Graduate Seminar Option (3 Hours):

CPSC 8985	Graduate Seminar (3)
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III. Electives (12 to 15 Hours)

With advisor's approval, students will select from 12 to 15 hours of Computer Science graduate courses. Graduate courses from related disciplines may be included with the approval of the advisor.

IV. Total - 33 Hours

Master of Arts in Criminal Justice

The Criminal Justice MA program at Governors State University provides individuals working in justice-related areas (or interested in doing so) with the skills, knowledge, and abilities to work effectively in their respective organizations and positions, and to effectively develop, implement, and evaluate system and organization change and reform initiatives. The Criminal Justice MA program also provides graduate students with a broad perspective on the criminal and juvenile justice systems, and prepares them for further graduate studies. The curriculum includes a series of classes, seminars, and workshops that impart specific skills in the areas of research, evaluation, data analysis, comparative analysis, and organizational leadership. Persons completing their master's degree in Criminal Justice at Governors State University will be equipped to attain advancement in the criminal and juvenile justice fields, participate skillfully and effectively in planned change at the organization and system levels, work more effectively in their respective positions, and pursue further graduate studies.

Admissions Requirements and Recommended Preparation

In addition to the university admissions requirements, students applying to the Criminal Justice MA program must:

- have a cumulative undergraduate grade point average of 2.75 (out of a possible 4.0);
- submit a letter of application explaining a statement of personal interest in pursuing a master's degree in criminal justice;
- submit three professional or academic letters of reference; and
- Completed applications must be submitted by May 15 for a fall, September 15 for spring, and January 15 for summer session admission.

Students seeking admission to the GSU Criminal Justice MA Program with a GPA lower than 2.75 may petition to the graduate program admissions committee for admission.

As criminal justice is an interdisciplinary field of study, students may apply for the MA in Criminal Justice at Governors State University with a baccalaureate degree in any field from an accredited university. We recommend undergraduate courses in the following areas: criminal or juvenile justice, general social science or criminal justice research methods, introductory statistical analysis, survey courses in the criminal justice system, juvenile justice, policing, court and judicial systems, race and gender studies, policy issues, and policy analysis. Strongly recommended undergraduate courses include: theories of deviance and criminal or delinquent behavior, international criminal

justice systems, restorative justice, community-based justice, research methods, criminology, the criminal justice system, and constitutional issues pertaining to the justice system. The Criminal Justice MA program will admit students conditionally if they do not meet the undergraduate prerequisites for the graduate core courses, pending successful completion of 12 Criminal Justice MA program credits.

Transfer Credits

Providing that university policies regarding transfer of graduate credits are met, transfer credit will only be allowed for courses taken in graduate criminal justice or related graduate programs at accredited institutions. A limit of nine hours of transferable credits can be awarded for the Criminal Justice master's degree program.

Statement of Expectations

The Criminal Justice MA seeks to develop students who are well prepared to work effectively and ethically in diverse professional settings. In order to fulfill this responsibility, program faculty must evaluate students based on their academic, professional, and personal/behavioral qualities. A student's progress in the program may be interrupted for failure to comply with academic standards, or if a student's interpersonal or emotional behavior interferes and/or demonstrates an inability to work humanely, effectively, and ethically in a variety of work settings, including one-on-one and group interactions. For example, in order to demonstrate sound behavioral qualities, a criminal justice graduate student must abide by relevant ethical codes, demonstrate professional and technical knowledge, and demonstrate positive, pro-social interpersonal skills, professional attitudes, and professional character. Criminal Justice program faculty evaluate these factors based on a student's academic performance and ability to convey warmth, respect, honesty, and empathy in interactions with the public, classmates, staff, and faculty. Student should demonstrate the ability to accept and integrate critical feedback, be aware of their impact on others, accept personal responsibility, and be able to express feelings effectively and appropriately.

Remediation Plan

Those students who do not continuously meet professional ethics and academic honesty standards, academic requirements and/or variables outlined in the statement of expectations may be required to have a remediation plan. In order to graduate, such a student must complete the remediation plan in a timely manner. Failure to successfully complete a remediation plan may result in suspension or expulsion from the MA Criminal Justice program.

Admission to Candidacy

Criminal Justice MA students must apply for candidacy upon completion of 18 credit hours (9 of these credit hours must be in the required courses). Students applying for candidacy to graduate with the MA in Criminal Justice must meet the following requirements:

1. Complete a minimum of 9 hours in the required courses, except for the thesis, directed readings, or problem-solving practicum, with a grade of "B" or better in each course;
2. Complete a minimum of 9 hours of elective course work with a grade average of "B" or better;
3. Successfully demonstrate the skills and abilities outlined under "Statement of Expectations" above (students working on a remediation plan will not be admitted to candidacy); and
4. Establish a Graduate Committee. The Graduate Committee must include a project advisor (must be a member of the Criminal Justice Faculty) and two other graduate faculty members (one of which must be another Criminal Justice faculty member, a faculty member from a graduate program in a related discipline, or a faculty member from another graduate program at Governors State University). A Graduate Committee may contain one outside member, who must be a tenured or tenure-track professor from a graduate program at an accredited university. Students apply for candidacy by completing a "Criminal Justice MA Program Application for Candidacy" form, including a list of the student's courses and grades to date, intended graduation project option (thesis, directed readings, or practicum), and a statement from the student's advisor regarding the student's prospects for completion within 4 years. The Criminal Justice MA Program Coordinator will review the application and indicate whether the student is admitted to candidacy, if additional coursework is required, or if the student will not be admitted to candidacy. Students denied admission to candidacy may appeal this decision to the College of Arts and Sciences Dean's Office.

Graduation Requirement

Criminal Justice MA students must complete their approved graduate project (with a "Pass" grade) during the term they intend to graduate. They must demonstrate the expected behavioral qualities outlined under "Statement of Expectations" above, and they must not have an active remediation plan at the time of graduation. Students may opt for one of the three possible graduate projects:

1. Master's Thesis – a traditional master's thesis including thesis statement, theory and hypotheses, literature review, research design, data collection and analysis, findings, conclusions, limitations, and bibliography; or
2. Directed Readings – selection of two specific areas of interest (each completed in a separate 3-credit course), development of readings lists in each, a semester-long dialogue with the lead professor, and a 72-hour take-home examination based on the readings; students must complete two independent directed readings projects, with two different lead professors; or
3. Problem-Solving Practicum – the student selects an issue or problem in the community or workplace, organizes individuals and stakeholders, conducts a needs assessment, develops and implements solutions to the problem, measures the early outcomes of the problem-solving initiative, and prepares a practicum report explaining the development, implementation, and outcomes of the project.

In addition to the requirements for candidacy outlined above, Criminal Justice MA students must complete the following requirement in order to attain the Master's degree:

1. the remaining required courses, with a "B" or better;
2. the remaining elective courses such that the grade average for all elective courses is a "B" or better; and
3. their graduate project with a Pass ("P") grade, which is determined by a vote of the three-member graduate project committee.

Curriculum

The Criminal Justice MA curriculum contains a core (required) sequence of classes comprising 16 credit hours covering a broad range of topics. This provides the leadership, analysis, and management foundation upon which students will build the remainder of their graduate studies. The curriculum provides for 15 elective credits, permitting students to specialize in particular areas of criminal or juvenile justice. Students complete the curriculum with a 6-credit graduation project – a two-course sequence involving a master's graduate research course and thesis, directed reading examinations in two subject areas, or a problem-solving practicum (implementation of a problem-solving initiative in the justice arena) covering two terms.

Curriculum listing

Students must meet all university requirements for a master's degree.

I. Required Courses (16 hours)

CJUS	6010	MA Seminar (1)
CJUS	7010	Criminal Justice Leadership: Theory and Practice (3)
CJUS	8100	Theories of Crime and Deviance (3)
CJUS	8200	Research Applications (3)
CJUS	8300	Criminal Justice System Organization Finances and Administration (3)
CJUS	8400	Justice and the Community (3)

II. Electives (15 credits)

Students must also complete 15 hours of electives in any of the following areas. Students may also take courses in the different areas with program coordinators' approval.

Understanding Crime and Deviance

CJUS	6130	Gangs, Guns, and Drugs (3)
CJUS	6150	Juvenile Delinquency (3)
CJUS	7110	Inductive Theory Building (3)
CJUS	7220	Theory and Crime Prevention (3)
CJUS	8170	Social Location and Prejudice in the Justice System (3)

Policy and Crime

CJUS	7210	Evaluation Research and Policy Analysis (3)
CJUS	7230	Special Topics in Crime Policy (1-3)
CJUS	7430	Terrorism and the Justice System (3)
CJUS	8210	Justice System Reform and Change (3)
CJUS	8280	Independent Research (1-3)
CJUS	8700	Graduate Research (3)

Administration, Planning, and System Change Management

CJUS	6510	Contemporary Issues in Criminal Law (3)
CJUS	7240	Crime Problem-Solving Approaches (3)
CJUS	8220	Community and Restorative Justice (3)

CJUS	8370	Special Topics in Organization Management (3)
CJUS	8800	Justice System Internship (1-3)

Digital Forensics and Computer Security

CJUS	5300	Digital Forensics (3)
CJUS	5540	Contemporary Issues in Digital Forensics (3)
CPSC	6580	Information Security (3)
CPSC	6584	Special Topics in Information Security (3)

Additional courses from other disciplines may be substituted for the selective courses with approval of the Program Coordinator.

III. Thesis/Directed Readings/Practicum (6 hours)

Select one of the following options:

A. Master's Thesis Option (3 Hours):

The Master's Thesis requires the student to develop an original research idea resulting in a research project entailing a description of the topic, issue, or problem, a literature review, development of a research hypothesis and questions, data collection and analysis, findings, conclusions, and limitations.

The thesis must be approved by three faculty members, one of which is the thesis director.

CJUS	8990	Master's Thesis (3)
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B. Directed Readings Option (6 Hours)

The directed readings option requires the student to take the directed readings course twice (each directed readings includes a 3-credit course), covering two distinct areas of study. Readings are selected from the following areas: Understanding Crime and Deviance; Policy and Crime; Administration, Planning, and Systems Change Management; and Digital Forensics and Computer Security (one different area may be selected with approval from the student's graduate committee). A Criminal Justice faculty member must serve as the director of each directed readings project, and each directed readings project must be reviewed and graded by a committee of three faculty members (one may be from a program other than Criminal Justice). Students must successfully pass two 72-hour take home examinations covering the two areas selected.

CJUS	8891	Directed Readings In:...
		(6, two 3-credit directed readings courses)

C. Problem-Solving Practicum (6 hours)

Working with a committee of three faculty members (the practicum director must be a Criminal Justice faculty member, and one member may be from another faculty), the student selects an issue or problem in the community or workplace, develops a plan to resolve or reduce the problem, and prepares a practicum report explaining the development, implementation, and outcomes of the project.

CJUS	8880	Problem-Solving Practicum (6)
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IV. Total with Thesis/Project - 37 Hours

Master of Arts in English

The Master of Arts degree in English leads to concentrated knowledge and understanding of civilization and culture as manifested in literature and other texts. The curriculum demands that students explore, analyze, and debate texts in their critical, social, and political contexts, and determine the implications of their differing cultural, historical, and philosophical perspectives. Students gain not only a comprehensive grasp of great literature in English and of issues in critical theory, language, and rhetoric but also a variety of reading and interpretive strategies that can be applied to challenging personal, professional, and societal conditions.

The master's degree requires a greater and more sophisticated scope and proficiency in interpretation, analysis, writing, and the analytical skills that one acquires through the study of literature, theory, and rhetoric, than is required of the bachelor's degree. This study of English is designed to meet not only the needs of persons involved in the teaching of English but also those of adult students who wish to develop abilities that transcend any narrow specialization or particular career orientation. The program enriches lives and improves the work of those who undertake it.

Special Admission Requirements

In addition to meeting the university admission criteria, applicants must:

1. have completed a bachelor's degree in English or in a very closely related field from a regionally accredited college or university with a 3.0 G.P.A.;
2. have an undergraduate major in English, literature, language, linguistics, or a closely related field;
3. submit scores from the Graduate Record Examination (GRE); including "500" or higher on the Verbal section and "4" or higher on the Writing Exam portion; students scoring a "3" may be granted probationary status with additional requirements assigned;
4. complete prerequisite course work with a "B" or better in each course; and
5. provide three letters of recommendation, with at least two letters from professors/instructors in the field.

Required Preparation

1. Students without the following undergraduate prerequisite course work will be granted conditional admission and be required to complete all prerequisites before full admission to the M.A. in English program: three hours in English (or British) Literature I or II, three hours in American Literature I or II, three hours in Shakespeare, and three hours in literary criticism. Completion of all prerequisites is required in addition to graduate degree requirements noted.
2. Students must maintain a G.P.A. of 3.0 for the first nine credit-hours to continue enrollment. Only one course in which a student earns less than a "B" may be repeated once.

Thesis/Non-Thesis Option

With faculty approval, students may choose a thesis option. To receive approval for the thesis option, a student must propose a thesis project after 18 credit hours have been completed to the English program tenure-stream faculty. At least two of the faculty members must vote 'yes' for the student to receive approval. In the thesis option, a student completes research and prepares a formal thesis manuscript. The thesis option would be appropriate for students who have research interests or who intend to pursue doctoral studies. In the non-thesis option, a student takes ENGL 8950 Comprehensive Exam in English. More information concerning the options is available in the English Graduate Student Handbook.

Admission to Candidacy

After admission as a degree-seeking student, a student will also apply for candidacy after completing her or his course work. Application for candidacy should be made at the beginning of the term in which the student expects to fulfill the candidacy requirements (successful completion of ENGL 8950 for non-thesis students; after 18 credit hours are earned for thesis students). Application forms are available in the college office. To qualify for degree candidacy for the thesis option, a student must do the following:

1. complete each course for the M.A. in English with a "B" (3.0) or better;
2. complete a detailed, approved proposal for a master's thesis; and
3. complete thesis proposal form with the signatures of three full time English faculty who have agreed to serve on the student's thesis committee; the primary thesis advisor must be from the tenure-stream faculty.

More detailed candidacy information is available through the M.A. in English advisors.

Degree Requirements Thesis Option

I. Required Courses (21 Hours)

- * ENGL 7100 Introduction to Graduate Studies (3)
- ENGL 7200 Seminar: Rhetorical and Critical Theory (3)
- ENGL 8700 Graduate Research (3)
- ** ENGL 8900 Graduate Thesis (3)

Select three of the following courses:

- ENGL 7500 College Composition: Theory and Practice (3)
- ENGL 8540 Seminar: English Literature (3)
- ENGL 8550 Seminar: American Literature (3)
- ENGL 8560 Seminar: Women's Literature (3)
- ENGL 8570 Seminar: World Literature (3)

* Must be taken as early as possible in the graduate student's career, preferably within the first two terms.

** ENGL8900 cannot be attempted until after completing the other core courses and the four elective/selective courses.

II. Additional Requirements (12 Hours)

With the advisor's approval, students will select at least four 5000-plus level courses in literature, rhetoric, composition, linguistics, or closely related fields. (Depending on the student's areas of interest, the electives might include such courses as ENGL6580: Read and Rap: Literature for Young Adult Readers, ENGL6172: Contemporary Native American Authors.)

III. Total - 33 Hours**Degree Requirements Non-Thesis Option****I. Required Courses (21 Hours)**

- * ENGL 7100 Intro to Graduate Studies (3)
- ENGL 7200 Seminar: Rhetorical and Critical Theory (3)
- ENGL 7500 College Composition: Theory and Practice (3)
- ENGL 8540 Seminar: English Literature (3)
- ENGL 8550 Seminar: American Literature (3)
- ENGL 8560 Seminar: Women's Literature (3)
- ENGL 8570 Seminar: World Literature (3)

* Must be taken as early as possible in the graduate student's career, preferably within the first two terms.

II. Additional Requirements (12 Hours)

With the advisor's approval, students will select at least four 5000-plus level courses in literature, rhetoric, composition, linguistics, or closely related fields. (Depending on the student's areas of interest, the electives might include such courses as ENGL6580: Read and Rap: Literature for Young Adult Readers, ENGL6172: Contemporary Native American Author.)

III. Exam (1 Hour)

- ENGL 8950 Comprehensive Exam in English

IV. Total - 34 Hours**Master of Science in Environmental Biology**

The graduate major in Environmental Biology prepares students as professional biologists with a strong environmental emphasis. Required courses cover the spectrum of environmental biology from toxicology, microbial ecology, and environmental physiology to population biology and community ecology, emphasizing the applied aspects of these disciplines. Students are trained in the application of quantitative methods and in the design of field and laboratory studies.

Graduates obtain employment in biological and related fields or pursue advanced degrees. A number of graduates work as naturalists and natural resource managers at county, state, and national parks. Others are employed in the public or private sector as environmental consultants, habitat assessment experts, or laboratory scientists. The curriculum also serves certified secondary school biology teachers who wish to develop an environmental focus.

Faculty research interests range widely and include topics such as microbial ecology, resource partitioning in aquatic communities, forest and prairie ecology, rodent population dynamics, environmental toxicology and comparative physiology, plant adaptation in wetland habitats, animal behavior, and curriculum development in biology education.

Special Admission Requirements

In addition to meeting university admissions criteria, applicants must have completed a bachelor's degree with a G.P.A. of 2.75 or higher and maintained a G.P.A. of 3.0 or higher for any graduate work attempted.

Required Preparation

Applicants must complete the following course work with a grade of "C" or better in each course: eight hours of general biology with lab, eight hours of general chemistry with lab, three hours of statistical methods (STAT4219/6219), and four hours each of organic chemistry with lab, ecology with lab, microbiology with lab, animal physiology with lab, and plant physiology with lab. A student may be provisionally admitted to the program pending completion of this list of courses or the re-taking of courses for which the original grade was less than "C." Students are expected to be proficient in a Windows environment with file management, word processing, spreadsheet, graphing, and Internet skills. Otherwise CPSC2005 or equivalent will be required with a grade of "C" or better. A second course in organic chemistry is strongly recommended.

Thesis/Project Option

As part of this degree program, students must choose between a thesis or project option.

In the thesis option, students develop a thesis proposal usually related to a faculty member's research, carry out a formal research study under the supervision of the faculty member and a degree committee, prepare a final manuscript that includes a thorough literature review chapter followed by a traditional manuscript chapter suitable for publication consideration, and make a formal research presentation. The thesis option would be appropriate for students who have focused research interests or who intend to pursue doctoral study.

In the project option, students develop a master's project proposal, complete the project in conjunction with a faculty member, and prepare a final technical report, and make a formal research presentation.

Admission to Candidacy

After admission as a degree-seeking student, a student also must be admitted to candidacy. To qualify for degree candidacy, an Environmental Biology student must accomplish the following within three years of admission to the program:

1. Required Preparation: Complete the required preparation course work listed above with a grade of "C" or better in each course.
2. Degree Plan: Meet during the first term of enrollment with the program academic advisor and faculty to complete a degree plan for the student's course of study in Environmental Biology. The degree plan must be approved by at least three faculty, the program academic advisor, and the chair of the Science Division.
3. Research Proposal: Identify a research advisor from among the full-time Biology faculty and prepare a formal research proposal. This proposal should be a comprehen-

sive statement of the student's intended thesis/project research and must be approved by a committee of the research advisor and a minimum of two other faculty. Approved research proposals must be filed with the program academic advisor at least one year before the student's expected date of graduation.

4. Grade Point Average: Maintain a G.P.A. of 3.0 or better to sustain candidacy.

More detailed candidacy information is available through the division office or from the student's advisor.

Degree Requirements

Students must meet all university requirements for a master's degree.

I. Required Courses (14 Hours)

BIOL	6657	Ecological Methods: Populations (2)
BIOL	6660	Ecological Methods: Communities (2)
BIOL	8840	Microbial Ecology (2)
BIOL	8841	Microbial Ecology Laboratory (1)
BIOL	8860	Ecosystem Ecology (2)
BIOL	8861	Ecosystem Ecology Lab (1)
STAT	8820	Experimental Design for the Natural Sciences (4)

II. Thesis/Project Option (3-7 Hours)

Select one of the following options:

Thesis Option (7 Hours)

BIOL	8990	Graduate Thesis (6)
BIOL	8998	Research Presentation (1)

or

Project Option (3 Hours)

BIOL	8990	Graduate Project (2)
BIOL	8998	Research Presentation (1)

III. Selectives (11-21 Hours)

Students in the Thesis Option select a minimum of 11 hours.

Students in the Project Option select a minimum of 21 hours.

BIOL	6522	Ornithology (1)
BIOL	6523	Ornithology Laboratory (2)
BIOL	6530	Biotechnology (2)
BIOL	6531	Biotechnology Laboratory (1)
BIOL	6536	Environmental Hydrology (2)
BIOL	6555	Mammalogy (2)
BIOL	6556	Mammalogy Laboratory (1)
BIOL	6560	Plant Systematics (2)
BIOL	6561	Plant Systematics Laboratory (1)
BIOL	6590	Aquatic Ecology (2)
BIOL	6591	Aquatic Ecology Laboratory (2)
BIOL	6615	Geographical Information Systems (3)
BIOL	6622	Natural Areas Ecology (3)
BIOL	6641	Toxicology (3)
BIOL	8000	Special Topics in (1-4)
BIOL	8850	Environmental Physiology (2)
BIOL	8851	Environmental Physiology Laboratory (1)

Other graduate-level science courses as approved by the academic advisor.

IV. Total for Thesis Option - 32 Hours

Total for Project Option - 38 Hours

Master of Fine Arts in Independent Film and Digital Imaging

The interdisciplinary Master of Fine Arts in Independent Film and Digital Imaging is a terminal degree in the applied arts of digital media production and imaging. The degree straddles the disciplines of Production in Media Communications and Digital Imaging in Art. Additional selective opportunities are available through English and Communications Studies.

Coursework for the Master of Fine Arts in Independent Film and Digital Imaging leads to specialized knowledge, creative development, and advanced technological skills in the applied digital arts of image making and media production.

Beyond taking the required courses, students plan their specific programs in consultation with their advisors, adapting the degree path's selective sequences to their individual needs and interests. Graduates of the program will work in career areas such as higher education, filmmaking, graphic design, photography, 2D and 3D animation, motion graphics, web design, consulting, producing, media writing, TV production/direction, and training.

Special Admissions Requirements

Applications for admission are due six weeks prior to the beginning of each semester. Applications for admission are available from the GSU Office of Admission and Student Recruitment and the Division of Communication, Visual and Performing Arts office. Due to limited space availability, this program can only accept fifteen students each year. Applicants will be ranked for admission on the basis of their academic potential and admission criteria.

In addition to meeting university admission criteria, applicants must:

A. Submit to the Office of Admission:

1. provide evidence of an undergraduate major in media, multimedia, communications, English, speech, or liberal arts.
2. have a minimum cumulative undergraduate G.P.A. of 3.5 on a 4.0 scale. Graduate courses can be substituted but the cumulative G.P.A. must be a 3.5 or better;
3. have appropriate prerequisite course work with a minimum prerequisite G.P.A. of 3.0 on a 4.0 scale. The GSU equivalent course is given in parenthesis. The following courses (in credit-hours) or their equivalents are minimum prerequisites for entry into the M.F.A. program;
 - a. English composition (3)
 - b. Speech course or oral communication (3)
 - c. Applied digital technology (3)
4. submit a supplementary application packet which includes:
 - a. supplemental information form;
 - b. a current resume;
 - c. three letters of recommendation; and
5. provide official TOEFL scores (if applicable); and
6. submit the payment of the \$50 application fee.

B. Submit to the IFDI Program Coordinator:

1. a portfolio: for students in digital imaging, this entails a CD-ROM of stills; for students in digital filmmaking, this entails a sample of a prior production on DVD, tape, or URL for streaming video; and
2. a personal essay or statement of intent with respect to goals for the degree, and artistic philosophy.
Note: Applicants may, at the discretion of the M.F.A. Admissions Committee, also be requested to participate in personal interviews.

Recommended Preparation

Admission to the program is restricted to a maximum of 15 students at any given time on a "rolling" basis. Admitted students will have maintained a GPA of 3.5 over the course of completing an undergraduate degree. All students must submit a portfolio demonstrating advanced proficiency and creative promise.

While admission to the program does not require an undergraduate major in Film, Video, or Photography, an undergraduate major in these or in one of the following fields is: media, multimedia, communications, English, speech, or liberal arts. In addition, students are expected to have demonstrable competence in digital technology and in oral and written communication.

Admission to Candidacy

After admission as a degree-seeking student, a student also must apply for candidacy. Application for candidacy should be made at the beginning of the semester in which the student expects to fulfill the candidacy requirements. Application forms are available in the college office. To qualify for degree candidacy, a student must:

1. completion of the following core courses IFDI 6544, IFDI 8100, and IFDI 6702 with a grade of "B" or better;
2. completion of 12 hours from the selective sequences with a grade point average of 3.5 or better; and
3. completion of an approved proposal for both a thesis project and internship.

More detailed candidacy information is available through the division office or the student's advisor.

Internship and Thesis/Project

As part of this degree program, students will pursue both an internship and thesis/project.

The student independently pursues a field-related internship and develops an agreement with the assistance of the internship site coordinator. Upon approval of the coordinator, the student may register for IFDI8800 Internship with a GSU coordinator. The GSU coordinator must be a full-time faculty in ART, MCOM, or IFDI.

In the thesis/project, the student selects a committee consisting of a thesis/project advisor and two additional faculty members, and then develops a proposal acceptable to the committee. Faculty advisors and readers must be drawn from full-time faculty in IFDI, ART, or MCOM. Students may register for IFDI 8990 once the committee has approved the

student's proposal. The student then completes a project/production with the guidance of the thesis/project advisor. A paper must accompany all projects submitted for evaluation. Once the project is completed and approved by the committee, a grade is assigned.

Minimum Degree Requirements

Students must maintain a GPA of 3.0 or higher to complete requirements for the MFA. A grade lower than "B" taken in any course will not be counted toward graduation.

I. Prerequisite courses:

ART 3325	Advanced Problems in Design or equivalent determined by advisor
MCOM 4740	Television Production or equivalent determined by advisor

II. Common Core - Required Courses: (21-27 hours)

IFDI 6702	Digital Film Production (3)
IFDI 6544	Digital Photographic Imaging (3)
IFDI 8100	Survey of Independent Film and Digital Imaging (3)
IFDI 8800	Internship (6-9)
IFDI 8990	Masters Thesis Project: (6-9)

Note: Not all courses are offered in all years or all terms. Many courses are offered just once per calendar year. Students are strongly advised to arrange appointments to consult with their advisors prior to beginning the program.

III. Theory and Aesthetics Selectives (9-15 hours)

Select Two to Four of the Following:

IFDI 5410	History of Photography (3)
IFDI 6742	History of Film (3)
IFDI 8400	Graduate Film Seminar (3)
IFDI 8420	Clinical Practices in Contemporary Photography (3)
IFDI 8701	Independent Study (1-6)
IFDI 8850	Digital Imaging Thesis Development Seminar (3)
ART 6520	Art in Context (3)
ART 8810	Studies in Art (3)
MCOM 6040	Film Seminar (3)

IV. Applied Courses Selectives (21-31 hours)

Select Five to Eight of the following:

IFDI 5000	Topics in Art (1-3)
IFDI 5070	Media Workshop (1-4)
IFDI 5460	Advanced Video Editing (3)
IFDI 5490	Photography: Combined Color Processes (3)
IFDI 5540	Documentary Photography (3)
IFDI 5709	Electronic Drawing and Design (3)
IFDI 5720	Audio Production (3)
IFDI 5731	Screenwriting (3)
IFDI 5734	Video Production Editing (3)
IFDI 5735	Documentary Filmmaking (3)
IFDI 5777	Cinematography (3)
IFDI 6565	3D Modeling (3)
IFDI 6566	3D Animation (3)
IFDI 6567	3D Rendering (3)
IFDI 6700	Graduate Media Workshop (3)
IFDI 6709	Advanced Electronic Drawing and Imaging (3)
IFDI 6730	Directing Drama for TV/Film (3)
IFDI 6744	Advanced Photographic Digital Imaging (3)
IFDI 6769	Acting for Independent Film (3)
IFDI 7725	Advanced Producing for Film-TV (3)
IFDI 7730	The Screenplay Project (3)
ART 6528	Digital Motion Graphics (3)

ART 6605	Digital Mixed Media Techniques (3)
ART 8830	Graduate Photography and Digital Imaging (3)
MCOM 5005	Media Symposium (1)
MCOM 6760	Non-Broadcast TV Operations (3)

V. Electives (0-9 hours)

Up to 9 (nine) credit hours taken at Governors State University, drawn from the Liberal Arts and at the 5000 level and higher, may be counted toward total credit hours allowable for graduation.

VI. Total - 60 Hours

Master of Science in Mathematics

The graduate major in Mathematics prepares students as professional mathematicians with an emphasis on problem solving and mathematical inquiry. Coursework will cover a wide range of mathematics including abstract algebra, probability and statistics, combinatorics, advanced calculus, the history of mathematics, financial mathematics, and mathematical modeling, while emphasizing both the applied and theoretical aspects of these disciplines. The use of the most current mathematics technology will help students analyze and solve problems like experienced mathematicians.

Several processes central to the preparation of outstanding mathematicians will be incorporated into the curriculum and monitored throughout the program. These include the ability to use a broad range of strategies and representations when solving problems and creating models, to use logic and reasoning for the analysis and development of mathematical proof, to identify connections within mathematics and to other disciplines, and to correctly communicate mathematical ideas precisely using the language of mathematics.

Special Admissions Requirement

In addition to the university admissions requirements, students must have:

1. a cumulative undergraduate grade point average of 2.75 (out of a possible 4.0). Students seeking admission to the GSU Master of Science in Mathematics program with a GPA lower than 2.75 may petition to the graduate program coordinator for admission.
2. submit a letter of application including a statement of personal interest in pursuing a master's degree in mathematics,
3. submit three professional or academic letters of reference

Students may apply for the Master of Science in Mathematics program at Governors State University with a baccalaureate degree in any field from an accredited university. An undergraduate major in mathematics, actuarial science, engineering, business, science, or computer science is recommended. Students must have completed, with a grade of "C" or higher, a three-semester sequence in calculus, a course in modern algebra, a course in linear algebra, and a course in analysis. Students may be conditionally admitted if they do not meet the undergraduate prerequisites for the graduate core courses.

Admission to Candidacy

As a benchmark toward graduation, students must apply for and be accepted to candidacy for the Master of Science degree in Mathematics. Mathematics students must apply for candidacy upon completion of 18 credit hours (6 of these credit hours must be in the Required Core Courses). Students applying for candidacy to graduate with the Master of Science degree in Mathematics must meet the following requirements:

1. Completion of a minimum of 6 hours in the required core, with a grade of "B" or better in each course;
2. Completion of a minimum of 12 additional hours of core or electives course work with a grade average of "B" or better, and no more than one course with a grade of "C" will be accepted; and
3. Establish a Graduate Committee. The Graduate Committee must include a project advisor (must be a tenured/tenure track Mathematics Faculty) and two other graduate faculty (one of which must be a faculty member from a graduate program in a related discipline or graduate program at Governors State University). A Graduate Committee may contain one outside member, who must be a tenured or tenure-track professor from a graduate program at an accredited university. Students apply for candidacy by completing a "Master of Science in Mathematics Program Application for Candidacy" form, including the student's courses and grades to date, date of intended graduate thesis/project/seminar, and a statement from the student's advisor regarding the student's prospects for completion within four years. The Master of Science in Mathematics Program faculty will review the application and vote on whether the student is admitted to candidacy, if additional coursework is required, or if the student will not be admitted to candidacy. Students who are denied admission to candidacy may appeal this decision to the College of Arts and Sciences Dean's Office.

Minimum Degree Requirements

In addition to the requirements for candidacy outlined above, Master of Science in Mathematics students must complete the following requirement in order to attain the Master's degree:

1. the remaining elective courses such that the grade average for all elective courses is a "B" (3.00 of 4.00) or better, no more than one course with a grade of "C" will be accepted, and no grades below a "C" will be accepted; and
 2. the graduate thesis/project (MATH8900) or graduate seminar (MATH8950) and presentation (MATH8990) with a Pass ("P") grade, which is determined by a vote of the three-member graduate project committee.
- I. **Required core courses (15)**
Students must complete the following
- | | |
|-----------|-----------------------------------|
| MATH 6449 | Linear Algebra II (3) |
| MATH 6451 | Modern Algebra (3) |
| MATH 8117 | History of Mathematical Ideas (3) |
| MATH 8505 | Advanced Probability (3) |
| MATH 8623 | Mathematical Modeling (3) |

II. Electives (15)

Students must also complete 15 hours of electives selected from any of the following courses. Students may also take courses in different areas with the program coordinator's approval.

MATH 6229	Advanced Calculus (3)
MATH 6337	Modern Geometry (3)
MATH 6373	Topology (3)
MATH 6637	Modern Laboratory (3)
MATH 7121	Combinatorics and Graph Theory (3)
MATH 7211	Advanced Calculus for Educators (3)
MATH 7369	Differential Geometry (3)
MATH 8219	Topics in Analysis (3)
MATH 8243	Partial Differential Equations (3)
MATH 8523	Financial Mathematics (3)

Up to 6 hours of courses from related disciplines may be substituted for the elective courses with approval of the program coordinator including the courses below:

CPSC 6562	Numerical Algorithms (3)
CPSC 6660	Artificial Intelligence (3)
CPSC 8810	Formal Languages and Automata (3)
CPSC 8815	Natural Language Processing (3)
	Finance
	Economics

III. Required graduate thesis/project/seminar (4)

Students must complete a graduate thesis, project or seminar as part of a capstone course and present their work to the mathematics community at Governors State University. Students can select one of the following options:

Master's Thesis/Project Option – A paper describing and synthesizing material from several papers on a selected topic of interest from mathematics, including, but not limited to, pure or applied mathematics, mathematics education, statistics, history of mathematics, mathematical computing, or financial mathematics. The thesis/project must be approved by three faculty members, one of which is the project director. A tenured/tenure track mathematics faculty member must serve as the director of each thesis/project, and each thesis/project must be reviewed and graded by a committee of three faculty members (one may be from a program other than mathematics). In addition, students will be required to present their work to the mathematics community at GSU.

Master's Graduate Seminar Option – Students participate in a seminar class, deeply investigating a topic in mathematics, mathematics education, statistics, history of mathematics, mathematical computing, or history of mathematics. The seminar topic will provide evidence of the ability to understand and synthesize the chosen topic. A Student Study Plan must be submitted to a tenured/tenure track faculty member who will serve as the supervisor of the seminar. This Student Study Plan must be reviewed and approved by a committee of three faculty members (one may be from a program other than mathematics). The seminar must be open to the mathematical community at GSU, and seminar documentation must be submitted to the supervisor.

MATH 8900	Graduate Thesis/Project (3) or
MATH 8950	Graduate Seminar Option (3) and
MATH 8990	Graduate Presentation (1)

IV. Total graduate coursework with thesis/project/seminar - 34 credits**Master of Arts in Political and Justice Studies**

The graduate major in Political and Justice Studies is designed to develop the conceptual abilities and substantive knowledge needed to acquire an understanding of political behavior, current policy issues, problems, and changes in government and society. The curriculum addresses the areas of American politics, justice studies, public policy formulation and evaluation, comparative politics, and international relations. The major and its related course offerings provide individuals with the opportunity to study areas such as American government and public policy, justice studies, comparative politics, and international affairs. The graduate program provides an academic foundation for students seeking careers in higher education, the legal profession, state or local governments, the non-profit sector, the federal bureaucracy, justice related fields, or organizations that monitor political and social processes or influence the content of public policy.

Admission Requirements and Recommended Preparation

In addition to the university admissions requirements, students applying to the Political and Justice Studies MA program must submit:

- Official transcripts showing successful completion of a bachelor's degree. Applicants will be expected to have a 2.75 cumulative G.P. A. (on a 4.0 scale);
- Submit a letter of application explaining a statement of personal interest in pursuing a master's degree in the Political and Justice Studies program. This statement should be specific and include information about the applicant's short- and long-term goals, and how enrolling in the program may help achieve them.
- Completed applications must be submitted by June 1st for fall admission and November 1st for spring admission.
- Additional material such as confidential letters of recommendation from professional references (e. g. current or former college faculty member, current or former work supervisor, or community leader) and written work may be requested by the program admissions committee or submitted voluntarily by the student for admission consideration.

Students seeking admission to the Political and Justice Studies MA program with a GPA lower than 2.75, but have a strong personal interest in the program may petition to the graduate program admissions committee for admission. The admissions committee takes into consideration strong letters of recommendation from professional references that attest to the student's abilities in writing and communication skills and concrete examples of the student's leadership abilities.

An undergraduate major or minor in political science, or a major in one of the social sciences or humanities, including anthropology, economics, sociology, history, philosophy, international studies, black studies, or area studies is recommended. Students may be required to demonstrate competency for graduate work by satisfying the following undergraduate preparatory courses at Governors State University or another accredited university: Foundations of U.S. Democracy (POLS2100) and a research methods course such as SOS4500. These courses must be completed with a grade

of "B" or better and are required in addition to the degree requirements listed below.

It is also highly recommended that students enroll in POJS6100 Theoretical Foundations to Political and Justice Studies and POJS6120 Research Methods, as well as attend a program orientation at the earliest opportunity.

Transfer Credits

Providing that University policies regarding transfer of graduate credits are met, transfer credit will only be allowed for courses taken in a graduate social science or related graduate programs at accredited institutions. A limit of nine hours of transferable credits can be awarded for the Political and Justice Studies master's degree program.

Admission to Candidacy

After admission as a degree-seeking student, a student also must apply for candidacy. Application for candidacy should be made at the beginning of the term in which the student expects to fulfill the candidacy requirements. Application forms are available in the college office. To qualify for degree candidacy, a student must:

1. complete each of the core courses listed below with a grade of "B" or better;
2. complete the selectives course work with a grade average of "B" or better, and;
3. with approval of a committee comprised of at least two Political and Justice Studies faculty, complete a proposal for either a thesis topic, internship project, or directed readings and obtain the committee's approval to study for the comprehensive examination.

More detailed candidacy information is available through the division office or the student's advisor.

Degree Requirements

Students must meet all university requirements for a master's degree.

I. Required Courses (15 Hours)

POJS	6100	Political and Justice Studies (3)
POJS	6120	Research Methods (3)
POJS	8200	The Presidency, Congress, and the Courts (3)
POJS	8210	Public Policy and Politics (3)
POJS	8300	Comparative Political and Justice Systems I (3)

II. Selectives (15 Hours)

In consultation with an advisor, students select at least 15 hours from the areas below. Courses must be taken in at least two areas. The following courses are suggestive of those that will fulfill this requirement.

A. American Politics and Public Policy

HIST	8400	Research in African-American History (3)
POJS	6100	Race, Class, Politics, and Justice (3)
POJS	6200	Theories of Conflict Resolution (3)
POJS	6300	Corporate Influence in Politics (3)
POJS	6320	Political Sociology (3)
POJS	7150	Law, Society, and Public Policy (3)
POJS	7190	Gender, Political Culture, and the Law (3)
POJS	7200	Elites and American Democracy (3)
POJS	7250	American Political Behavior (3)

POJS	8200	The Presidency, Congress, and the Courts (3)
POJS	8240	Intergovernmental Relations (3)
POJS	7035	Topics in American Politics and Public Policy (3)

B. Social Justice and Public Policy

ICS	6610	Introduction to Gender Studies (3)
POJS	6100	Race, Class, Politics, and Justice (3)
POJS	6150	Civil and Human Rights (3)
POJS	6250	Community Justice (3)
POJS	7037	Topics in Social Justice and Public Policy (3)
POJS	7101	Constitutional Law: Process and Change (3)
POJS	7150	Law, Society, and Public Policy (3)
POJS	7190	Gender, Political Culture, and the Law (3)
POJS	7220	Global and US Justice Movements (3)
POJS	7300	Social Origins of Violence (3)
POJS	7400	Sexual Politics (3)
POJS	8100	Labor, Workforce and Social Change (3)
POJS	8110	Wealth, Power and Inequality (3)
POJS	8150	Contemporary Theories of Social Justice (3)
POJS	8500	Victimology (3)

C. Comparative and Global Politics

ECON	7200	Current Global Economic Problems (3)
POJS	6150	Civil and Human Rights (3)
POJS	6200	Theories of Conflict Resolution (3)
POJS	7036	Topics in Comparative & Global Politics (3)
POJS	7220	Global and US Justice Movement (3)
POJS	7330	U.S. Foreign Policy (3)
POJS	7350	Third World in Global Development (3)
POJS	8390	Challenges of Globalization (3)
POJS	8450	International Law and Organization (3)

III. Thesis/Internship Paper/Practicum/Directed Readings Options (3 or 6 Hours)

Students must be in Candidacy Status before registering for the thesis, internship, practicum, or directed readings options. This includes having completed all core courses with a grade of "B" or better and an overall grade point average of B or higher.

Select one of the following options:

A. Thesis/Project Option (3 Hours):

A panel of three faculty members, one of which is the thesis director who is faculty from Political and Justice Studies, must approve the thesis. Students must also present their thesis to invited faculty members in a public forum. It is highly recommended that student enroll in POJS 8700 Graduate Research prior to registering for thesis hours in order to allow the student the requisite time to complete the readings and research needed for a quality thesis. The student is also responsible for circulating the paperwork so that all three readers (one main reader from Political and Justice Studies faculty and at least two secondary readers, with one of the secondary readers being a faculty member from Political and Justice Studies) sign the appropriate paperwork for a timely registration. POJS 8700 and POJS 8990 must be completed with at least a "B" grade.

POJS	8700	Graduate Research (1-4)
POJS	8990	Graduate Thesis/Project (3)

B. Directed Readings Option (6 Hours):

The directed readings option requires students to take the directed readings course twice covering two distinct areas of study. Readings are selected from the following areas: American Politics and Public Policy, Social Justice and Public Policy, and Comparative and Global Politics.

Students must successfully pass two comprehensive examinations covering the two areas selected with a "B" or higher. Directed Readings (POJS8981 & 8982) must be taken in two different fields and they must be taken with two different faculty

members as the main readers, with at least two secondary readers, with one of the secondary readers being a faculty member from Political and Justice Studies.

POJS 8981 Directed Readings (3)

POJS 8982 Directed Readings (3)

C. Internship/Practicum Project and Paper Option (6 Hours):

Students may select the internship project for a total of six credits and will have completed 300 hours at the internship/practicum experience. The analytical internship paper option involves the application of the student's knowledge and skills in a culminating experience approved by a main faculty supervisor in consultation with a panel of two additional faculty readers, with at least one of the secondary readers being a faculty member from Political and Justice Studies who will also read and evaluate the culminating major analytical paper. POJS8970 must be completed with at least a "B" grade.

POJS 8970 Internship/Practicum Project (6)

D. Directed Scholarship I

If the Thesis/Internship/Practicum/Directed readings Options (graduate capstone) is not completed in the term the student is enrolled in the graduate capstone course, students may, under the supervision of the graduate faculty member, register for POJS8999 Directed Scholarship to maintain active enrollment in their graduate program while completing the requirements for their degree. To receive this option, students must have received a grade of "CO" in the graduate capstone course and completed a Student Contract that is signed by the student, thesis director, and department/division chair that clearly specifies how the student will demonstrate significant progress towards or completion of the graduate capstone designate for which they are registered (hold the "CO" in). NOTE: This course is variable (1-2) in credit hours, repeatable (not replaceable) for a maximum of three times in a degree program, and is a P/NC option.

IV. Total with Thesis/Project (33 Hours)

Total with Directed Readings/Internship/Practicum Project - 36 Hours

Certificate in Biology Education

This is a post-baccalaureate certificate to prepare graduates of Biology programs for teacher licensure in Biology at the secondary education level.

Teacher Licensure

This sequence of courses is approved by the Illinois State Board of Education and leads to the Initial Secondary High School License in Biology. To be recommended for certification by Governors State University, students must earn a grade "B" or better in EDUC4999 Student Teaching: Biology.

To be recommended for an Illinois State Board of Education teaching license, the student must present evidence of having passed the Test of Academic Proficiency (formerly Basic Skills), Subject-Matter Knowledge, and Assessment of Professional Teaching examinations of the Illinois Licensure Testing System.

Students must meet other requirements for licensure through approved programs listed in the Licensure of Teachers and Other School Professionals section in this catalog.

This requirement is likely to include additional general education, education, and content courses.

Students may obtain an endorsement that prepares them for teaching in the middle school. Students choosing to pursue the middle school endorsement must take three (3) hours in Early Adolescent Educational Psychology and three (3) hours in Curriculum Methods for Middle School. Students should contact the Office of Secondary Education for specific course numbers.

Admission to Biology Education

In addition to meeting all university admissions requirements for certificate students, applicants must meet the following requirements to be admitted to the Biology Education certificate:

1. have a bachelor's or higher in Biology from a regionally accredited college or university;
2. have a cumulative average G.P.A. of 2.5 or higher in all lower division courses applied to the degree program; and
3. submit a word-processed essay not to exceed 300 words explaining why the applicant wishes to be a teacher.

Continuation in the Certificate

In order to continue in the certificate after the first term of enrollment, students must meet the following requirements:

1. complete EDUC2310 (or equivalent) with a grade of "B" or better;
2. submit evidence of having passed the Test of Academic Proficiency (formerly Basic Skills) of the Illinois Licensure Testing System; and
3. submit scores from the ETS Proficiency Profile.

Some schools and/or school districts require criminal background checks in advance of any field experience undertaken by teacher preparation candidates in school settings. Candidates may be required to comply with these requirements. Consult with your advisor for information concerning the related GSU policies and procedures.

Student Progress

The faculty monitors and evaluates student progress continually. The section, Licensure of Teachers and Other School Professionals, in this catalog provides a general description of the standards used to evaluate student progress. A more detailed statement of the standards and processes followed by the secondary education faculty is available in the Secondary Education Undergraduate Student Handbook available via the student portal on the GSU website.

Conditional Continuation

The faculty may permit a student to continue conditionally. In such cases, faculty reviews of the student's records identify evidence that the student will likely be successful in the program. The status of all students allowed to continue under conditions is reviewed by the faculty each term, and the students are informed in writing of the conditions necessary for them to be transferred to good standing status. When

conditions are met, the student is informed in writing of the transfer to good standing status. A student may not be admitted to student teaching without being in good standing status.

Student Handbook

The Student Handbook Undergraduate Degrees in Secondary Education referred to in this catalog is available online at http://www.govst.edu/Academics/Colleges_and_Programs/College_of_Arts_and_Sciences/Secondary_Education_Programs_in_Biology,_Chemistry,_English_and_Mathematics/

Admission to Student Teaching

Before enrolling in EDUC4999: Student Teaching, an application for admission to student teaching must be submitted to the director of Field Experiences in the College of Education. The application must be submitted by December 1 for the fall term and January 31 for the spring term preceding the academic year in which the student intends to teach (student teaching is not offered in the summer term). This application for student teaching will certify that the student applying has or will have met the following requirements:

1. completed at least 48 hours of general education requirements with a G.P.A. of 2.75 or higher in courses taken at Governors State University;
2. completed professional education course requirements, except student teaching, including a minimum of 100 clock-hours of field experience with a G.P.A. of 3.0 or higher, with a grade of "C" or better in each course, and EDUC6330 and EDUC6340 with a grade of "B" or better;
3. must have completed methods course no more than two years prior to the commencement of student teaching;
4. have no more than six hours remaining to be completed in the major in which the student is enrolled with a G.P.A. of 3.0 or higher and completed all courses with a grade of "C" or better;
5. met all state requirements applicable to the subject matter area(s) in which the student will teach as outlined in Section IX, Staff Qualifications of the Illinois State Board of Education publication, Minimum Requirements for State Licensure;
6. submitted evidence of having passed the Biology content area exam of the Illinois Licensure Testing System; and
7. received a positive recommendation from the Secondary Education Student Progress Committee.

Degree Requirements

Students must meet all university requirements for a license, and in addition, students must complete the general education requirement for teacher licensure Initial High School License listed in the Teacher Education section of this catalog.

In addition, students must:

1. have a cumulative G.P.A. of 2.75 or higher;
2. earn a grade of "C" or better in all general education courses;
3. have a G.P.A. of 2.75 or higher for all general education courses;

4. have a G.P.A. of 3.0 or higher in all biology, chemistry, and physics courses;
5. have a G.P.A. of 3.0 or higher for EDCP6101, EDUC4440, and SPED6101, with a grade of "C" or better in each course;
6. earn a grade of "B" or better in EDUC2310, EDUC6330, and EDUC6340;
7. earn a grade of "B" or better in EDUC4999;
8. complete a minimum of 100 clock-hours of supervised pre-student teaching experiences;
9. provide evidence of successful completion of the Illinois and U.S. Constitution examinations;
10. complete at least one three-hour course in nonwestern or third world cultures;
11. show evidence of having passed the Assessment of Professional Teaching;
12. meet any additional requirements listed in the Teacher Licensure section of this catalog; and
13. receive a positive recommendation from the Secondary Education Student Progress Committee.

I. Professional Education (minimum of 24 Hours at GSU)

The following courses can be taken at either the lower-division or upper-division level:

EDUC 2310	Foundations of Education (3)
SPED 6101	Survey of Students with Exceptionalities (3)

The following courses must be taken at the upper-division level:

EDUC 4440	Educational Psychology in Action (3)
EDUC 4999	Student Teaching: Secondary Biology (12)
EDUC 6330	Principles of Science Education (3)
EDUC 6340	Teaching Secondary School Science (3)
EDCP 6101	Introduction to Educational Technology (3)

II. Additional Requirements

Students may need to complete additional general education or Biology courses if their bachelor degree requirements do not meet the requirements of the approved Governors State University program for the endorsement in Biology Education.

III. Minimum Total - 24 Hours

Certificate in Chemistry Education

This is a post-baccalaureate certificate to prepare graduates of Chemistry programs for teacher licensure in Chemistry at the secondary education level.

Teacher Licensure

This sequence of courses is approved by the Illinois State Board of Education and leads to the Initial Secondary License in Chemistry. To be recommended for licensure by Governors State University, students must earn a grade of "B" or better in EDUC4999 Student Teaching: Chemistry.

To be recommended for an Illinois State Board of Education teaching license, the student must present evidence of having passed the Test of Academic Proficiency (formerly Basic Skills), Subject-Matter Knowledge, and Assessment of Professional Teaching examinations of the Illinois Licensure Testing System.

Students must meet other requirements for licensure through approved programs listed in the Licensure of Teachers and Other School Professionals section in this catalog. This requirement is likely to include additional general education, education, and content courses.

Students may obtain an endorsement that prepares them for teaching in the middle school. Students choosing to pursue the middle school endorsement must take three (3) hours in Early Adolescent Educational Psychology and three (3) hours in Curriculum Methods for Middle School. Students should contact the Office of Secondary Education for specific course numbers.

Admission to Chemistry Education

In addition to meeting all university admissions requirements, applicants for the Chemistry Education license must meet the following requirements:

1. have a bachelor's or higher in Chemistry from a regionally accredited college or university;
2. have a cumulative average G.P.A. of 2.75 or higher in all lower division courses applied to the degree program; and
3. submit a word-processed essay not to exceed 300 words explaining why the applicant wishes to be a teacher.

Continuation in the Certificate

In order to continue in the certificate after the first term of enrollment, students must meet the following requirements:

1. complete EDUC 2310 (Foundations of Education, or equivalent) with a grade of "B" or better;
2. submit evidence of having passed the Test of Academic Proficiency (formerly Basic Skills) of the Illinois Licensure Testing System; and
3. submit scores from the ETS Proficiency Profile.

Some schools and/or school districts require criminal background checks in advance of any field experience undertaken by teacher preparation candidates in school settings. Candidates may be required to comply with these requirements. Consult with your advisor for information concerning the related GSU policies and procedures.

Student Progress

The faculty monitors and evaluates student progress continually. The section, Teacher Education and Licensure, in this catalog provides a general description of the standards used to evaluate student progress. A more detailed statement of the standards and processes followed by the secondary education faculty is available in the Secondary Education Undergraduate Student Handbook found via the student portal on the GSU website.

Conditional Continuation

The faculty may permit a student to continue conditionally. In such cases, faculty reviews of the student's records identify evidence that the student will likely be successful in the program. The status of all students allowed to continue under conditions is reviewed by the faculty each semester, and the

students are informed in writing of the conditions necessary for them to be transferred to good standing status. When conditions are met, the student is informed in writing of the transfer to good standing status. A student may not be admitted to student teaching without being in good standing status.

Student Handbook

The Student Handbook Undergraduate Degrees in Secondary Education referred to in this catalog is available online at http://www.govst.edu/Academics/Colleges_and_Programs/College_of_Arts_and_Sciences/Secondary_Education_Programs_in_Biology,_Chemistry,_English_and_Mathematics/

Admission to Student Teaching

Before enrolling in EDUC4999: Student Teaching, an application for admission to student teaching must be submitted to the Director of Field Experiences in the College of Education. The application must be submitted by December 1 for the fall term and January 31 for the spring term preceding the academic year in which the student intends to teach (student teaching is not offered in the summer term). This application for student teaching will certify that the student applying has or will have met the following requirements:

1. completed at least 48 hours of general education requirements with a G.P.A. of 2.75 or higher in courses taken at Governors State University;
2. completed professional education course requirements, except student teaching, including a minimum of 100 clock-hours of field experience with a G.P.A. of 3.0 or higher, with a grade of "C" or better in each course, and EDUC6330 and EDUC6340 with a grade of "B" or better;
3. must have completed a methods course no more than two years prior to the commencement of student teaching;
4. have no more than six hours remaining to be completed in the major in which the student is enrolled with a G.P.A. of 3.0 or higher and completed all courses with a grade of "C" or better;
5. met all state requirements applicable to the subject matter area(s) in which the student will teach as outlined in Section IX, Staff Qualifications of the Illinois State Board of Education publication, Minimum Requirements for State Licensure;
6. submitted evidence of having passed the Chemistry content area exam of the Illinois Licensure Testing System; and
7. received a positive recommendation from the Secondary Education Student Progress Committee.

Degree Requirements

Students must meet all university requirements for a license, and in addition, students must complete the general education requirement for teacher licensure Initial High School License listed in the Teacher Education section of this catalog.

In addition, students must:

1. have a cumulative G.P.A. of 2.5 or higher;
2. earn a grade of "C" or better in all general education courses;

3. have a G.P.A. of 2.75 or higher for all general education courses;
4. have a G.P.A. of 3.0 or higher in chemistry and physics courses;
5. have a G.P.A. of 3.0 or higher for EDUC6101, EDUC4440, and SPED6101, with a grade of "C" or better in each course;
6. earn a grade of "B" or better in EDUC2310, EDUC6330, and EDUC6340;
7. earn a grade of "B" or better in EDUC4999;
8. complete a minimum of 100 clock-hours of supervised pre-student teaching experiences;
9. provide evidence of successful completion of the Illinois and U.S. Constitution examinations;
10. complete at least one three-hour course in non-western or third world cultures;
11. show evidence of having passed the Assessment of Professional Teaching;
12. meet any additional requirements listed in the Teacher Licensure section of this catalog; and
13. receive a positive recommendation from the Secondary Education Student Progress Committee.

I. Professional Education (minimum of 30 Hours)

The following courses can be taken at either the lower-division or upper-division level:

EDUC 2310 Foundations of Education (3)
 SPED 6101 Survey of Students with Exceptionalities (3)

The following courses must be taken at the upper-division level:

EDUC 4440 Educational Psychology in Action (3)
 EDUC 4999 Student Teaching: Secondary Chemistry (12)
 EDUC 6330 Principles of Science Education (3)
 EDUC 6340 Teaching Secondary School Science (3)
 EDCP 6101 Introduction to Educational Technology (3)

II. Additional Requirements

Students may need to complete additional general education or Chemistry courses if their bachelor degree requirements do not meet the requirements of the approved Governors State University program for the endorsement in Chemistry Education.

III. Minimum Total of 30 Hours (Minimum of 24 hours at GSU)

Certificate in Digital Forensics

To address the increasing threat from computer crimes and cybercrime, digital forensics is necessary. Law enforcement and government agencies, organizations, and companies all need digital forensics professionals to better protect digital assets, or investigate cybercrime. The Digital Forensics Certificate is offered to students who wish to obtain theoretical and practical knowledge in digital forensics. The Center for Law Enforcement and Technology Collaboration, which incorporates the programs of Computer Science, Criminal Justice, and Management Information Systems at GSU, is also involved in offering this certificate.

This certificate is open to both upper-division undergraduate and graduate students. Both full-time and part-time students are eligible to enroll in this certificate program.

Among the four courses required by this certificate program (CPSC6540/CJUS5300, CPSC6542/CJUS5540, and CPSC6622),

CPSC6540/CJUS5300 serves as an entry-level course. Two courses are offered per semester. A student should be able to complete all required courses within two terms after fulfilling the prerequisite.

Admission Requirements

In addition to meeting the university requirements for certificate admission, applicants must have completed the following course:

CPSC 5000 Computer Science Workshop: Digital Forensics Preparation or its equivalent.

Certificate Requirements

In order to receive the Digital Forensics Certificate, both undergraduate and graduate students must complete each required course with a grade of "B" or better and submit the application for award of certificate to their faculty advisor.

*Note: If an undergraduate student gets a "C" in a required course for the certificate program, this course may be counted as an elective course for his/her degree requirements.

Required Courses (12 Hours)

CPSC6540/CJUS5300 Digital Forensics (3)
 CPSC6542/CJUS553 Contemporary Issues in Digital Forensics (3)
 CJUS 6584 Special Topics in Information Security (3)
 CPSC 6622 Special Topics in Digital Forensics (3)

Certificate in English Education

This is a post-baccalaureate certificate to prepare graduates of English programs for teacher licensure in English Language Arts at the secondary education level.

Teacher Licensure

This sequence of courses is approved by the Illinois State Board of Education and leads to the Initial Secondary

Licensure in English Language Arts. To be recommended for licensure by Governors State University, students must earn a grade of "B" or better in EDUC4999: Student Teaching: English.

To be recommended for an Illinois State Board of Education teaching license, the student must present evidence of having passed the Test of Academic Proficiency (formerly Basic Skills), Subject-Matter Knowledge, and Assessment of Professional Teaching examinations of the Illinois Certification Testing System.

Students must meet other requirements for licensure through approved programs listed in the Licensure of Teachers and Other School Professionals section in this catalog. This requirement is likely to include additional general education, education, and content courses.

Students choosing to pursue the middle school endorsement must take three (3) hours in Early Adolescent Educational Psychology and three (3) hours in Curriculum Methods for Middle School. Students should contact the Office of Secondary Education for specific course numbers.

Admission to English Education

In addition to meeting all university admissions requirements for the certificate, applicants must meet the following requirements to be admitted to the English Education certificate:

1. have a bachelor's or higher in English from a regionally accredited college or university;
2. have a cumulative average G.P.A. of 2.5 or higher in all lower division courses applied to the degree program; and
3. submit a word-processed essay not to exceed 300 words explaining why the applicant wishes to be a teacher.

Continuation in the Certificate

In order to continue in the certificate after the first term of enrollment, students must meet the following requirements:

1. complete EDUC2310 (Foundations of Education, or equivalent) with a grade of "B" or better;
2. submit evidence of having passed the Test of Academic Proficiency (formerly Basic Skills) of the Illinois licensure Testing system; and
3. submit scores from the ETS Proficiency Profile.

Some schools and/or school districts require criminal background checks in advance of any field experience undertaken by teacher preparation candidates in school settings. Candidates may be required to comply with these requirements. Consult with your advisor for information concerning the related GSU policies and procedures.

Student Progress

The faculty monitors and evaluates student progress continually. The section, Licensure of Teachers and Other School Professionals, in this catalog provides a general description of the standards used to evaluate student progress. A more detailed statement of the standards and processes followed by the secondary education faculty is available in the Secondary Education Undergraduate Student Handbook, http://www.govst.edu/Academics/Colleges_and_Programs/College_of_Arts_and_Sciences/Secondary_Education_Programs_in_Biology,_Chemistry,_English_and_Mathematics/

Conditional Continuation

The faculty may permit a student to continue conditionally. In such cases, faculty reviews of the student's records identify evidence that the student will likely be successful in the program. The status of all students allowed to continue under conditions is reviewed by the faculty each term, and the students are informed in writing of the conditions necessary for them to be transferred to good standing status. When conditions are met, the student is informed in writing of the transfer to good standing status. A student may not be admitted to student teaching without being in good standing status.

Student Handbook

The Student Handbook Undergraduate Degrees in Secondary Education referred to in this catalog is available online at

http://www.govst.edu/Academics/Colleges_and_Programs/College_of_Arts_and_Sciences/Secondary_Education_Programs_in_Biology,_Chemistry,_English_and_Mathematics/

Admission to Student Teaching

Before enrolling in EDUC4999: Student Teaching, an application for admission to student teaching must be submitted to the director of Field Experiences in the College of Education. The application must be submitted by December 1 for the fall term and January 31 for the spring term preceding the academic year in which the student intends to teach (student teaching is not offered in the summer term). This application for student teaching will certify that the student applying has or will have met the following requirements:

1. completed general education requirements with a G.P.A. of 2.75 or higher in courses taken at Governors State University;
2. completed professional education course requirements, except student teaching, including 100 clock-hours of field experience with a G.P.A. of 3.0 or higher, with a grade of "C" or better in each course and EDUC4465, ENGL6570 and ENGL6575 with a grade of "B" or better;
3. must have completed methods courses no more than two years prior to the commencement of student teaching;
4. must have no more than six hours (at the discretion of the advisor) remaining to be completed in the major, with a G.P.A. of 3.0 or higher, and completing all courses with a grade of "C" or better;
5. met all state requirements applicable to the subject matter area(s) in which the student will teach as outlined in Section IX, Staff Qualifications of the Illinois State Board of Education publication, Minimum Requirements for State Licensure;
6. submitted evidence of having passed the English Content Area Examination of the Illinois Licensure Testing System; and
7. received a positive recommendation from the Secondary Education Student Progress Committee.

Degree Requirements

Students must meet all university requirements for a license, and, in addition, students must complete the general education requirement for teacher licensure Initial High School License listed in the teacher education section of this catalog.

In addition, students must:

1. have a cumulative G.P.A. of 2.5 or higher;
2. earn a grade of "C" or better in all general education courses;
3. have a G.P.A. of 2.75 or higher for all general education courses, if applicable;
4. have a G.P.A. of 3.0 or higher in English courses with a grade of "C" or better in each course;
5. have a G.P.A. of 3.0 or higher for EDUC4440, EDCEP6101 and SPED6101 with a grade of "C" or better in each course;
6. earn a grade of "B" or better in EDUC2310, EDUC4465, ENGL 6580, ENGL 6570 and ENGL6575;
7. earn a grade of "B" or better in EDUC4999: Student Teaching;

8. complete a minimum of 100 clock-hours of supervised pre-student teaching experiences;
9. provide evidence of successful completion of Illinois and U.S. Constitution examinations;
10. complete at least one three-hour course in nonwestern or third world cultures;
11. show evidence of having passed the Assessment of Professional Teaching;
12. meet any additional requirements listed in the Teacher Licensure section of this catalog; and
13. receive a positive recommendation from the Secondary Education Student Progress Committee.

I. Professional Education (minimum of 24 Hours)

The following courses can be taken at either the lower-division or upper-division level:

EDUC 2310 Foundations of Education (3)
 SPED 6101 Survey of Students with Exceptionalities (3)

The following courses must be taken at the upper-division level:

EDUC 4440 Educational Psychology in Action (3)
 EDUC 4465 Methods of Teaching English (3)
 EDUC 4999 Student Teaching (12)
 EDCP 6101 Introduction to Educational Technology (3)

II. Additional Requirements

Students may need to complete additional general education or English courses if their degree requirements do not meet the requirements of the approved Governors State University program for the endorsement in English Education.

III. Minimum Total - 24 Hours at GSU

Certificate in Information Security

With the increase of computer and network attacks, information security has become a very serious concern. Organizations need information security professionals to protect digital assets. The Information Security Certificate is offered to students who wish to obtain theoretical and practical knowledge in information security. The Center for Technology Collaboration, which incorporates the programs of Computer Science, Criminal Justice, and Management Information Systems at GSU, is also involved in offering this certificate.

Special Admissions Requirements

In addition to meeting the university requirements for certificate admission, applicants must have complete the following courses in either category 1 or category 2:

Category 1 - CPSC 4205, CPSC 4335, and CPSC 4342 or their equivalents; or

Category 2 - CPSC 5000 or its equivalent. Note: Students need to be aware that they must have a discrete mathematics background. If the student does not have that background, they will need to seek assistance.

Certificate Requirements

To receive the Information Security Certificate, undergraduate students must complete each required course with a grade of "B" or better and submit the petition for completion to their faculty advisor.

I. Required Courses (15 Hours)

CPSC 6580/MIS 6580 Information Security (3)
 CPSC 6581/MIS 6801 Information Security Policy and Management (3)
 CPSC 6582 Cryptography and Network Security (3)
 CPSC 6583 Laboratory in Information Security (3)
 CPSC 6584 Special Topics in Information Security (3)

II. Total - 15 Hours at GSU

Certificate in Mathematics Secondary Education

This is a post-baccalaureate certificate to prepare graduates of Mathematics programs for teacher licensure in mathematics at the secondary education level.

Teacher Certification

This sequence of courses is approved by the Illinois State Board of Education and leads to the Initial Secondary Licensure in mathematics. To be recommended for licensure by Governors State university, students must earn a grade of "B" or better in EDUC 4999: Student Teaching: Mathematics.

To be recommended for an Illinois State Board of Education teaching certificate, the student must present evidence of having passed the Test of Academic Proficiency (formerly Basic Skills), Subject-Matter Knowledge, and Assessment of Professional Teaching examinations of the Illinois Certification Testing System.

Students must meet other requirements for licensure through approved programs listed in the Licensure of Teachers and Other School Professionals section of this catalog.

To be recommended by Governors State University, students must apply for the license within one year of completing the program.

Admission to Mathematics Education

In addition to meeting all university admission requirements for certificate students, applicants must meet the following requirements to be admitted to the Mathematics Education Certificate:

1. have a bachelor's or higher in Mathematics from a regionally accredited college or university;
2. have a cumulative average G.P.A. of 2.5 or higher in all lower division courses applied to the degree program; and
3. submit a word-processed essay not to exceed 300 words explaining why the applicant wishes to be a teacher.

Continuation in the Certificate

In order to continue in the certificate after the first term of enrollment, students must meet the following requirements:

1. complete EDUC2310 (Foundations of Education, or equivalent) with a grade of "B" or better;
2. submit evidence of having passed the Test of Academic Proficiency (formerly Basic Skills) of the Illinois Licensure Testing System; and
3. submit scores from the ETS Proficiency Profile; and Some schools and/or school districts require criminal background checks in advance of any field experience undertaken by teacher preparation candidates in school settings. Candidates may be required to comply with these requirements. Consult with your advisor for information concerning the related GSU policies and procedures.

Student progress

The faculty monitors and evaluates student progress continually. The Licensure of Teachers and Other School Professionals section in this catalog provides a general description of the standards used to evaluate student progress. A more detailed statement of the standards and processes followed by the secondary education faculty is available in the Secondary Education Undergraduate Handbook at http://www.govst.edu/Academics/Colleges_and_Programs/College_of_Arts_and_Sciences/Secondary_Education_Programs_in_Biology,_Chemistry,_English_and_Mathematics/

Conditional Continuation

The faculty may permit a student to continue conditionally. In such cases, faculty reviews of the student's records identify evidence that the student will likely be successful in the program. The status of all students allowed to continue under conditions is reviewed by the faculty each term, and the students are informed in writing of the conditions necessary for them to be transferred to good standing status. When conditions are met, the student is informed in writing of the transfer to good standing status. A student may not be admitted to student teaching without being in good standing status.

Student Handbook

The Student handbook Undergraduate Degrees in Secondary education referred to in this catalog is available online at http://www.govst.edu/Academics/Colleges_and_Programs/College_of_Arts_and_Sciences/Secondary_Education_Programs_in_Biology,_Chemistry,_English_and_Mathematics/.

Admission to Student Teaching

Before enrolling in EDUC4999 Student Teaching, an application for admission to student teaching must be submitted of the director of Field Experiences in the College of Education. The application must be submitted by December 1 for the fall term and January 31 for the spring term preceding the academic year in which the student intends to teach (student teaching is not offered in the summer term). This application for student teaching will verify that the student applying has or will have met the following requirements:

1. completed at least 48 hours of general education requirements with a G.P.A. of 2.75 or higher in courses taken at Governors State University;
2. completed professional education course requirements, except student teaching, including a minimum of 100 clock hours of field experience with a G.P.A. of 3.0 or higher, with a grade of "C" or better in each course, and EDUC 6360 and EDUC 6370 with a grade of "B" or better;
3. must have completed methods course no more than two years prior to the commencement of student teaching;
4. have no more than six hours remaining to be completed in the certificate in which the student is enrolled with a G.P.A. of 3.0 or higher and completed all courses with a "C" or better;
5. met all state requirements applicable to the subject matter area(s) in which the student will teach as outlined in Section IX, Staff Qualifications of the Illinois State Board of Education publication, Minimum Requirements for State Licensure;
6. submit evidence of having passed the Mathematics content area exam of the Illinois Licensure Testing System; and
7. received a positive recommendation from the Second-art Education Student progress Committee.

Certificate Requirements

Students must meet all university requirements for a license, and in addition, student must complete the general education requirement for teacher licensure Initial Secondary License listed in the Teacher Education section of this catalog.

In addition, students must:

1. have a cumulative G.P.A. of 2.5 or higher;
2. earn a grade of "C" or better in all general education courses;
3. have a G.P.A. of 2.75 or higher for all general education courses;
4. have a G.P.A. of 3.0 or higher in mathematics courses with a grade of "C" or better in each course;
5. have a G.P.A. of 3.0 or higher for EDCP6101, EDUC4440, and SPED6101, with a grade of "C" or better in each course;
6. earn a grade of "B" or better in EDUC2310, EDUC6360, and EDUC6370;
7. earn a grade of "B" or better in EDUC4999;
8. complete a minimum of 100 clock hours of supervised pre-student teaching experiences;
9. provide evidence of successful completion of the Illinois and U.S. Constitution examinations;
10. show evidence of having passed the Assessment of Professional Teaching;
11. meet any additional requirements listed in the Teacher Licensure section of this catalog; and
12. receive a positive recommendation from the Secondary Education Student progress Committee.

I. Professional Education (minimum of 24 hours)

The following courses can be taken at either the lower-division or upper-division level:

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|-----------|--|
| EDUC 2310 | Foundations of Education (3) |
| SPED 6101 | Survey of Students with Exceptionalities (3) |

The following courses must be taken at the upper-division level:

EDCP 6101 Introduction to Educational Technology (3)

EDUC 6360 Principles of Secondary Mathematics
Education (3)

EDUC 6370 Teaching Secondary School Mathematics (3)

EDUC 4440 Educational Psychology in Action (3)

EDUC 999 Student Teaching: Secondary Mathematics (12)

II. Additional Requirements

Students may need to complete additional general education or Mathematics courses if their bachelor degree requirements do not meet the requirements of the approved Governors State University program for the endorsement in Mathematics Education.

III. Minimum Total - 24 Hours at GSU