Catalogue Addendum
2017 - 2018

Addendum to sections in the
"Complete College Catalogue 2016-2017"

Wooster, Ohio
CONTENTS

DEPARTMENTS AND PROGRAMS

Archaeology ................................................................. 3
Biochemistry and Molecular Biology ................................. 6
Computer Science .......................................................... 9
French and Francophone Studies ..................................... 13
Music ............................................................................... 17
Russian Studies .............................................................. 28

DEGREE REQUIREMENTS

Bachelor of Music ............................................................ 31
Bachelor of Music Education .............................................. 33
Bachelor of Music Therapy ............................................... 35

DIRECTORY

Faculty ............................................................................... 37
ARCHAEOLOGY

CURRICULUM COMMITTEE:
P. Nick Kardulias (Archaeology and Anthropology), Chair
Olivia Navarro-Farr (Archaeology and Anthropology)
Kara Morrow (Art)
Margaret Ng (History)
Josephine Shaya (Classical Studies)
Gregory Wiles (Geology)

Archaeology is an interdisciplinary field of study that investigates the past by finding and analyzing evidence from material culture and the natural environment. Its history as an academic field in this country began in 1879, when scholars from a number of established academic disciplines – especially history, classical studies, anthropology, and art – founded the Archaeological Institute of America. Archaeologists draw on the humanities, history and the social sciences, and the physical sciences in their research to identify the unique achievements and common elements of past societies around the world.

Wooster’s archaeology curriculum has been designed to reflect the interrelated-ness of the participating fields and to promote both ethical awareness and an appreciation of human diversity. The program is designed both for majors and for students with a more general interest in archaeology. Majors may view the degree in archaeology as partial preparation for a career in teaching, museum curatorship, or field archaeology. If so, they should secure as broad a background as possible in the liberal arts and plan to pursue their studies on a graduate level.

Major in Archaeology
Consists of fourteen courses
• ARCH 10300
• ANTH 11000
• GEOL 10500 or GEOL 19901
• ARCH 21900-21907
• ARCH 35000
• Four electives in one area of emphasis taken from cross-listed courses accepted for ARCH credit
• Two electives in a second area of emphasis taken from cross-listed courses accepted for ARCH credit
• Junior Independent Study: ARCH 40100
• Senior Independent Study: ARCH 45100
• Senior Independent Study: ARCH 45200

Minor in Archaeology
Consists of six courses
• ARCH 10300
• ARCH 35000
• Four of the following courses: ANTH 11000, 20500, 21000, ARCH 21900-21907, SOAN 24000, GEOL 10500,
  20000, 21000, 30000, GREK 20001, HIST 20400, 20500, 20600, LATN 20100, IDPT 24000 or 24100

Special Notes
• The chairperson of Archaeology will approve a substitute for ARCH 21900-21907 for majors and minors unable to schedule the course.
• Only grades of C- or better are accepted for the major or minor.

ARCHAEOLOGY COURSES

ARCH 10300. INTRODUCTION TO ARCHAEOLOGY
As an overview of the discipline, this course includes study of the historical development of archaeology, consideration of basic field and analytical methods, and a review of world prehistory beginning with the emergence of the first humans to the rise of civilization. Emphasis is on how archaeologists reconstruct past societies out of fragmentary evidence. Required prior to ARCH 35000 and recommended prior to other courses listed under Archaeological Perspectives and Methods, which best serve as specialized case studies. Annually. Fall and Spring. [HSS]
ARCH 21900-21907. ISSUES IN ARCHAEOLOGY
The course material will vary. Examples include models of explanation and the nature and biases of evidence in interpreting the past; North American archaeology; recent excavations of specific sites; spatial analysis; Old World prehistory; Mesoamerican archaeology. May be taken more than once with permission of the chairperson. Prerequisite: ARCH 45100.

ARCH 35000. ARCHAEOLOGICAL METHODS AND THEORY
This course is an in-depth study of the methodological and theoretical foundations of archaeology. The student becomes familiar with the process of archaeological reasoning — the assumptions, models, and techniques scholars use to analyze and interpret the material record. Topics include dating techniques, systems of classification, research design, and central debates in modern theory. Students may work with materials in the Archaeology Lab. Practica include a mapping exercise and other activities. Students are strongly encouraged to complete ARCH 35000 prior to enrolling in ARCH 40100. Prerequisite: ARCH 10300.

ARCH 40100. JUNIOR INDEPENDENT STUDY
A one-semester course that focuses upon the research skills, methodology, and theoretical framework necessary for Senior Independent Study.

ARCH 45100. SENIOR INDEPENDENT STUDY – SEMESTER ONE
The first semester of the Senior Independent Study project, in which each student engages in creative and independent research guided by a faculty mentor and which culminates in a thesis and an oral examination in the second semester. Prerequisite: ARCH 40100.

ARCH 45200. SENIOR INDEPENDENT STUDY – SEMESTER TWO
The second semester of the Senior Independent Study project, which culminates in the thesis and an oral examination. Prerequisite: ARCH 45100.

CROSS-LISTED COURSES Accepted for Archaeology Credit by Area Emphasis

ART AND ART HISTORY
- ARTH 10100. INTRODUCTION TO ART HISTORY I
- ARTS 15100. INTRODUCTION TO DRAWING
- ARTS 15900. INTRODUCTION TO PHOTOGRAPHY
- ARTH 20100. THE BRONZE AGE
- ARTH 20600. EARLY MEDIEVAL ART
- ARTH 22300. ARCHITECTURE I: STONEHENGE TO BEAUX-ARTS
- IDPT 24000. GREEK ARCHAEOLOGY AND ART
- IDPT 24100. ROMAN ARCHAEOLOGY AND ART

CLASSICAL STUDIES
- GREK 20100. SEMINAR IN GREEK LITERATURE (INTERMEDIATE LEVEL I)
- GREK 20200. SEMINAR IN GREEK LITERATURE (INTERMEDIATE LEVEL II)
- HIST 20400. GREEK CIVILIZATION
- HIST 20500. ROMAN CIVILIZATION
- IDPT 24000. GREEK ARCHAEOLOGY AND ART
- IDPT 24100. ROMAN ARCHAEOLOGY AND ART
- LATN 20100. SEMINAR IN LATIN LITERATURE (INTERMEDIATE LEVEL I)
- LATN 20200. SEMINAR IN LATIN LITERATURE (INTERMEDIATE LEVEL II)

GEOLOGY
- GEOL 10000. HISTORY OF LIFE
- GEOL 20000. PROCESSES AND CONCEPTS OF GEOLOGY
- GEOL 20800. MINERALOGY
- GEOL 21000. CLIMATE CHANGE
- GEOL 22000. INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS
- GEOL 26000. SEDIMENTOLOGY AND STRATIGRAPHY
- GEOL 30000. GEOMORPHOLOGY AND HYDROGEOLOGY
- GEOL 30800. IGNEOUS AND METAMORPHIC PETROLOGY
HISTORY
   HIST 20400. GREEK CIVILIZATION
   HIST 20500. ROMAN CIVILIZATION
   HIST 20601. MEDIEVAL EUROPE, 500-1350
   HIST 23400. TRADITIONAL CHINA

SOCIOLOGY AND ANTHROPOLOGY
   ANTH 20500. POLITICAL ANTHROPOLOGY
   ANTH 21000. PHYSICAL ANTHROPOLOGY
   ANTH 22000. LINGUISTIC ANTHROPOLOGY
   ANTH 23100-23113. PEOPLES AND CULTURES
   ANTH 35200. CONTEMPORARY ANTHROPOLOGICAL THEORY
   SOAN 34000. ETHNOGRAPHIC RESEARCH
   SOAN 34100. SOCIAL STATISTICS
   SOCI 35000. CLASSICAL SOCIAL THEORY
BIOCHEMISTRY AND MOLECULAR BIOLOGY

CURRICULUM COMMITTEE:
James West (Biochemistry and Molecular Biology), Chair
Paul Edmiston (Chemistry)
Dean Fraga (Biology)
William Morgan (Biology)
Melissa Mullen Davis (Biochemistry and Molecular Biology)
Erzsébet Regan (Biology)
Mark Snider (Chemistry)
Stephanie Strand (Biology)

This interdisciplinary program, jointly administered by faculty from the Departments of Biology and Chemistry, enables students to ask and explore fundamental questions concerning the molecular events that occur in organisms. Students who complete this program will possess an understanding of the structures of biological molecules, the reactions involved in biological energy conversions, the formation and organization of complex cellular structures, and the communication of biological information spatially and temporally.

Through its curriculum, the Biochemistry and Molecular Biology Program seeks to develop students who:
• Possess a broad and fundamental understanding of biology and chemistry with particular focus on how molecules found in biological systems confer the properties of living organisms.
• Are able to perform the common methods and use the tools of the field including laboratory and computational techniques.
• Can conduct independent scientific investigation and scientific inquiry.
• Are able to locate, evaluate, and communicate scientific information effectively both by written and oral presentation.

Major in Biochemistry and Molecular Biology
Consists of fifteen courses
• CHEM 11200
• One of the following courses: MATH 11100 (see note below), PHYS 11100, or PHYS 10700
• BIOL 11100
• BIOL 20100
• CHEM 21100
• CHEM 21200
• One of the following courses: CSCI 10000, CSCI 10200, or IDPT 20013
• BIOL 30500
• BIOL 30600
• BCMB 30300
• BCMB 33100
• One of the following courses: BCMB 33200, 33300, or CHEM 33400
• Junior Independent Study: BCMB 40100
• Senior Independent Study: BCMB 45100
• Senior Independent Study: BCMB 45200

Special Notes
• The MATH 11100 requirement may be fulfilled by successful completion of both MATH 10700 and 10800.
• There is no minor in Biochemistry and Molecular Biology.
• A student may not double major in Biochemistry and Molecular Biology with Biology, Chemistry, or Neuroscience.
• To complete the Biochemistry and Molecular Biology major, students should follow the sequence below:

First Year:      CHEM 11200 (and 11100, if needed) BIOL 11100, 20100
Sophomore Year: CHEM 21100, 21200
                 BIOL 30500, 30600
                 MATH 11100 (or 10700 and 10800), or PHYS 11100, or PHYS 10700
                 CSCI 10000, CSCI 10200, or IDPT 20013
A student who desires to replace a course listed above with a different course to count toward the major can petition the BCMB Curriculum Committee.

A BCMB major who desires an American Chemical Society-Certified Biochemistry Degree is required to take the following courses in addition to the course requirements for the BCMB major: CHEM 21500, CHEM 31800, MATH 11200, and PHYS 11200. The A.C.S.-certified degree is encouraged for those students who plan to enter a graduate program in

Required courses in the major, including Physics and Mathematics, must be passed with a grade of C– or higher. Courses in the major exceeding the number required in the major may be taken S/NC with permission of the instructor. All courses must be taken concurrently with the corresponding laboratory.

All students are encouraged to broaden their perspective on the major by taking additional upper level Chemistry, Biology, and/or Biochemistry and Molecular Biology course

**BCMB 30300. TECHNIQUES IN BIOCHEMISTRY AND MOLECULAR BIOLOGY** (Biology, Chemistry)

This laboratory-based course gives students hands-on experience with experimental methods used in biochemistry and molecular biology. It is organized around a semester-long project in which students design and work toward specific research goals. This course counts for major credit in Biology and Chemistry. BCMB majors are encouraged to have prior or concurrent enrollment in BCMB 33100. **Prerequisites:** C- or better in CHEM 11200 and BIOL 20100.

**BCMB 33100. PRINCIPLES OF BIOCHEMISTRY** (Biology, Chemistry)

This course focuses on the structural and chemical properties of the four main categories of biological molecules — amino acids, nucleic acids, carbohydrates, lipids — as a means of critically analyzing the functions of complex biological macromolecules and cellular processes at the molecular level. Structure, equilibria, thermodynamics, kinetics and reactivity of biological macromolecules, with emphasis on proteins and enzymes, are the course cornerstones. Principles of bioenergetics and intermediary metabolism (glycolysis, citric acid cycle, and oxidative phosphorylation) also discussed. Critical thinking and inquiry encouraged by analysis and discussion of current research literature. This course counts for major credit in Biology and Chemistry. Concurrent enrollment in BCMB 30300 highly recommended. Suggested previous courses: BIOL 30500 and 30600. **Prerequisite:** C- or better in CHEM 21200 and BIOL 20100 or by permission of instructor.

**BCMB 33200. BIOCHEMISTRY OF METABOLISM** (Biology, Chemistry)

A continuation of BCMB 331 with molecular and mechanistic emphasis on advanced cellular metabolism, metabolomics, signal transduction, as well as DNA, RNA and protein metabolism. Critical thinking and inquiry encouraged by analysis and discussion of current research literature. This course counts for major credit in Biology and Chemistry. **Prerequisite:** C- or better in BCMB 33100 or permission of instructor.

**BCMB 33300. CHEMICAL BIOLOGY** (Biology, Chemistry)

This course explores how chemistry can be utilized to examine and manipulate molecular events in biological systems. Specifically, the course is divided into different units, including proteomic profiling, enzyme activity profiling, metabolic engineering, and protein engineering. Critical thinking and inquiry encouraged by analysis and discussion of current research literature. This course counts for major credit in Biology and Chemistry. **Prerequisite:** C- or better in BCMB 33100 or permission of instructor.

**CHEM 33400. BIOPHYSICAL CHEMISTRY**

This course examines the underlying physical principles and laws that govern the behavior of biological reactions. The fundamental principles of molecular structure, chemical kinetics, and thermodynamics are explored in relation to biological phenomena. Three class hours per week. **Prerequisite:** MATH 11100 or 10800 and either BCMB 33100 or CHEM 31800 with a C- or better.

**BCMB 40000. TUTORIAL**

Special and advanced topics in Biochemistry & Molecular Biology. Evaluation of the student's accomplishment will be based on a contract with the supervising professor. Students apply to the program chairperson for this option. This course does not count toward a major in Biochemistry and Molecular Biology. (0.5 - 1 course credit) **Prerequisite:** The approval of both the supervising faculty member and the chairperson is required prior to registration.
BCMB 40100. INTRODUCTION TO INDEPENDENT STUDY
This course focuses on scientific writing, experimental design, and informational retrieval systems, including accessing and evaluating the growing collection of molecular databases. Students explore the literature related to their proposed senior I.S. thesis through a series of structured writing assignments that culminate in a research proposal for the senior project. In addition, students learn the mechanics of scientific presentations and give a brief seminar on their proposed project. Prerequisite: C- or better in CHEM 21100 and C- or better in either BIOL 30500 or BIOL 30600 or permission of instructor.

BCMB 410000. INTERNSHIP
A structured, usually off-campus experience, in which a student extends classroom knowledge to a work position within a community, business, or governmental organization. Student interns work and learn under the joint guidance of a host organization supervisor and a College of Wooster mentor. The student must arrange the internship in advance through the appropriate department or program. No more than six internships, and a maximum of four Wooster course credits, will count toward graduation. The form for registering for an internship and the Internship Learning Plan are available in the office of the Registrar. (0.25-4 course credits) S/NC course. Prerequisite: The approval of a College of Wooster mentor, department chair, the faculty adviser, and the Associate Dean for Experiential Learning is required.

BCMB 45100. SENIOR INDEPENDENT STUDY – SEMESTER ONE
An original investigation is conducted, culminating in a thesis and oral defense of the thesis in the second semester. During the year each student gives at least one research poster and oral presentation on the research topic. A student normally has one research adviser. Prerequisite: C- or better in BCMB 40100.

BCMB 45200. SENIOR INDEPENDENT STUDY – SEMESTER TWO
The thesis is evaluated by the research adviser and one other professor from the BCMB Curriculum Committee, in consultation with the other members of the BCMB Curriculum Committee. Prerequisite: BCMB 45100.
COMPUTER SCIENCE

FACULTY:
Jennifer Bowen, Chair
Denise Byrnes
Nathan Fox
Nathan Sommer
Sofia Visa

Computer Science is the study of computer programs, abstract models of computers, and applications of computing. Computer Science combines elements of mathematics, philosophy, languages, and natural science. Although computing technology is continuously changing, the core skills required to practice Computer Science remain the same: problem solving, abstract thinking, and independent learning.

The mission of the Computer Science program is to educate students in the theoretical foundation of the discipline and its creative application to the solution of complex problems, and to prepare students to learn independently in a discipline that is constantly changing. Supported by a liberal arts education, the program seeks to develop students who are sensitive to the wide range of social concerns influenced by the discipline and who are articulate in expression of their ideas and actions. Students successfully completing the Computer Science major should have the computer science background and the mathematical maturity needed to enter a graduate program in Computer Science or to take an entry-level position in a computing-related field.

As computing is increasingly applied to other fields, students in the natural sciences, business and economics, and other majors may benefit from a minor or double major in Computer Science.

**Major in Computer Science**
Consists of fifteen courses
- One of the following courses: CSCI 10000 or CSCI 10200
- CSCI 11000
- CSCI 12000
- One of the following courses: CSCI 21000 or CSCI 21200
- One of the following courses: CSCI 22000 or CSCI 22200
- One of the following courses: CSCI 23000 or CSCI 23200
- Two 300-level full-credit Computer Science courses
- Junior Independent Study: CSCI 20000. See note below
- Senior Independent Study: CSCI 45100
- Senior Independent Study: CSCI 45200
- One of the following courses: MATH 10800 or MATH 11100
- MATH 21100
- One of the following courses: MATH 21500 or MATH 22300

**Minor in Computer Science**
Consists of eight courses
- One of the following courses: CSCI 10000 or CSCI 10200
- CSCI 11000
- CSCI 12000
- One of the following courses: CSCI 20000, CSCI 23000, or CSCI 23200
- Two full-credit Computer Science major-eligible courses at the 200-level or above
- One of the following courses: MATH 10800 or MATH 11100
- MATH 21100

**Special Notes**
- **Junior Independent Study:** The College requirement of a third unit of Independent Study is satisfied through the independent work done as part of CSCI 20000, which must be taken for senior standing in the major.
- **Advanced Placement:** At most one course of advanced placement may be counted toward a major or minor. Advanced placement of one course in Computer Science is available to students who have taken the Advanced
Placement Examination or an equivalent furnished by the Department of Mathematics and Computer Science. Students are urged to take the AP Examination for this purpose when possible. The decision about granting such placement is made by the Department of Mathematics and Computer Science after the student has consulted with the chairperson. Normally a minimum score of 3 on the examination is necessary, but such a score alone does not guarantee advanced placement. A student placed in CSCI 11000 will receive one course credit. The advanced placement policy of the College is explained in the section on Academic Policies.

- Students are given a recommended placement in Computer Science based upon their high school record, their performance on the SAT and/or ACT, and their performance on a mathematics placement exam administered by the department during Summer registration.
- Majors are encouraged to take related courses in physics, mathematics, economics, and philosophy.
- Majors are strongly encouraged to complete the math sequence in the following order; MATH 11100, MATH 21100, MATH 21500, and MATH 22300.
- The laboratory and classroom components are closely integrated in Computer Science courses with a laboratory and must therefore be taken concurrently. The course grade and the laboratory grade are identical and are based on performance in both components; the relative weight of the two components is stated in each course syllabus.
- Multimedia Computing, CSCI 10000, and Scientific Computing, CSCI 10200, are designed specifically for students wanting a course in Computer Science to partially fulfill the College’s Learning Across the Disciplines requirements.
- Those students who are oriented toward the application of the computer to a specific professional objective, such as industrial or business management, medicine, engineering, computational natural science, or law, should consider a Computer Science minor or double major in consultation with the adviser for those programs.
- Combined programs of liberal arts and engineering are available. (See Pre-Professional and Dual Degree Programs: Pre-Engineering.)
- Only grades of C- or better are acceptable in courses for the major or minor.

COMPUTER SCIENCE COURSES

**CSCI 10000. SCIENTIFIC COMPUTING**
The purpose of this course is to show some of the connections between computer science and other disciplines such as mathematics and the natural sciences. We will study the fundamental computer science concepts for the design and implementation of solutions to problems that can be solved through approximations, simulations, interpolations, and recursive formulas. No prerequisite. Annually. Fall and Spring. [MNS]

**CSCI 10200. MULTIMEDIA COMPUTING**
The purpose of this course is to show some of the connections between the humanities, social science and computer science. We will study the fundamental computer science concepts for the design and implementation of animations, simulations, simple computer games and three-dimensional virtual worlds. No prerequisite. Annually. Fall. [MNS]

**CSCI 11000. IMPERATIVE PROBLEM SOLVING**
This course emphasizes the imperative view of problem solving, supported by problem solutions implemented in the C programming language. Some topics include: top-down and procedural design; algorithm development for interesting problems such as the Sieve of Eratosthenes, a Magic Square, displaying the Mandelbrot Set; introduction to recursion; C language constructs such as variables, sequential statements, control structures, functions, parameters, pointers, arrays; and introduction to the C standard library. Prerequisite: CSCI 10000 or CSCI 10200. Annually. Fall and Spring. [MNS]

**CSCI 12000. DATA STRUCTURES AND ALGORITHMS**
Building on the basic problem solving skills developed in CS 11000, this course adds tools to solve more complex problems using the C++ programming language. It introduces classic data structures used to store collections of data efficiently. It further develops software-engineering practices—including testing, documentation, and object-oriented programming—that aid in the construction of solutions for complex problems. Prerequisite: CSCI 11000. Annually. Fall and Spring. [MNS]

**CSCI 20000. ALGORITHM ANALYSIS**
This course covers standard and advanced algorithms for problem solving in computer science. Brute force, recursion, greedy strategies and dynamic programming techniques are applied to real world problems. Time- space analysis is performed for various algorithm and data structure pairings. The limitations of algorithms are also studied in the context of NP-completeness. Prerequisite: CSCI 12000 and MATH 21100 or 21500 or 22300. Annually. Spring.

**CSCI 21000. PRINCIPLES OF COMPUTER ORGANIZATION**
This course provides an overview of computer systems design and architecture, and machine language. Topics include: instruction set design, register transfers, data-path design, pipelining, controller design, memory systems, addressing techniques, microprogramming, computer arithmetic. A survey of popular computer systems and microprocessors reinforce how real computer systems are designed. Prerequisite: CSCI 12000. Alternate years. Fall.
CSCI 21200. OPERATING SYSTEMS
Beginning with a brief historical perspective of the evolution of operating systems over the last fifty years, students are introduced to the important problems in operating system design and implementation. This discussion will cover the tradeoffs that can be made between performance and functionality during the design and implementation of an operating system. Particular emphasis will be given to three major OS subsystems: process management (processes, threads, CPU scheduling, synchronization, and deadlock), memory management (segmentation, paging, swapping), and file systems. Prerequisite: CSCI 12000. Alternate years. Fall.

CSCI 22000. THEORY OF COMPUTATION
The theory of abstract machines and formal languages is introduced in this course. Computability by finite automata, pushdown automata and Turing machines is examined and related to pattern matching, lexical analysis, compilation and programming for digital computer systems. Proofs by induction, construction, contradiction and reduction are used to formalize computability theory and the limitations of computing. Prerequisite: CSCI 12000 and MATH 21500 or 22300. Alternate years. Fall.

CSCI 22200. PROGRAMMING LANGUAGES
Beginning with a study of the historical development of programming languages, students are introduced to the decisions involved in the design and implementation of such programming language features as elementary, structured, and user-defined data types, sub-programs, sequence control, data control and storage management. Selected features of several existing languages are examined in the context of these issues. Prerequisite: CSCI 12000. Alternate years. Fall.

CSCI 23000. SOFTWARE ENGINEERING – MOBILE COMPUTING
Software engineering is the discipline concerned with the application of theory, knowledge, and practice to effectively and efficiently build reliable software systems that satisfy the requirements of customers and users. Students are introduced to the field of software engineering in the context of the design and implementation of software for mobile devices. Prerequisite: CSCI 12000. Alternate years. Spring.

CSCI 23200. SOFTWARE ENGINEERING – DATABASES
Software engineering is the discipline concerned with the application of theory, knowledge, and practice to effectively and efficiently build reliable software systems that satisfy the requirements of customers and users. Students are introduced to the field of software engineering in the context of the design and implementation of database-driven software applications. Prerequisite: CSCI 12000. Alternate years.

CSCI 27900. PROBLEM SEMINAR
This course provides the opportunity for students to practice solving challenging computer science problems. Typically, this is for those students intending to prepare for the ACM programming contest in which the College participates. The ACM contest is the culmination of this course. (.25 course credit) S/NC course. May be taken more than once. Prerequisite: CSCI 11000. Annually.

CSCI 30000. COMPUTER GRAPHICS
This course explores the theory and application of computer graphics through the evolution of graphics algorithms and rendering hardware. Topics include 2-D and 3-D transformations and projections, illumination models, texture mapping, animation techniques, user interfaces, and rendering algorithms. Group projects, lab assignments and in class activities expose students to the practical problems inherent in computer graphics problem solving. Prerequisite: CSCI 20000 or CSCI 23000 or CSCI 23200 and MATH 21100. Alternate years. Fall.

CSCI 31000. MACHINE INTELLIGENCE
This course is a hands-on introduction to machine learning and artificial intelligence. The main question addressed is: How can we design good computer algorithms that improve automatically through experience (e.g. similar to the way humans learn)? Multiple machine learning models are examined. The goal of the course is that students begin to understand some of the issues and challenges facing machine learning while being exposed to the pragmatics of implementing machine learning systems in Matlab. Prerequisites: CSCI 20000 or CSCI 23000 or CSCI 23200. Alternate years. Spring.

CSCI 32000. USER INTERFACE DESIGN
This course explores human computer interaction theory within the framework of user interface (GUI) design. The material includes user centered design principles, prototyping and evaluation techniques and implementation of interfaces. Human capabilities (including the human information processor model, perception, motor skills, color, attention, and errors) are discussed. Small and medium scale user interfaces are developed during the semester along with several team projects. Prerequisite: CSCI 20000 or CSCI 23000 or CSCI 23200. Alternate years. Fall.

CSCI 33000. COMPUTER NETWORKING AND COMMUNICATION
This course provides a broad introduction to fundamental concepts in the design and implementation of computer communication networks, their protocols, and applications. Topics to be covered include: network design principles, protocol layering, naming and addressing, TCP/IP protocol, unicast and multicast routing, flow control, routing algorithms, network security. Prerequisites: CSCI 20000 or CSCI 23000 or CSCI 23200. Alternate years. Spring.

CSCI 39900. SPECIAL TOPICS
The content and prerequisites of this course vary according to the topic chosen. The course is available at irregular intervals when there is a need for a special topic. Past topics include Software Quality, Parallel and Distributed Computing, and Web Programming. (Variable course credit) Prerequisite: Permission of the instructor.
CSCI 40000. TUTORIAL
This course is given for topics not normally covered in regular courses. Prerequisite: The approval of both the supervising faculty member and the chairperson is required prior to registration.

CSCI 41000. INTERNSHIP
A structured, usually off-campus experience, in which a student extends classroom knowledge to a work position within a community, business, or governmental organization. Student interns work and learn under the joint guidance of a host organization supervisor and a College of Wooster mentor. The student must arrange the internship in advance through the appropriate department or program. No more than six internships, and a maximum of four Wooster course credits, will count toward graduation. The form for registering for an internship and the Internship Learning Plan are available in the office of the Registrar. (0.25-4 course credits) S/NC course. Prerequisite: The approval of a College of Wooster mentor, department chair, the faculty adviser, and the Associate Dean for Experiential Learning is required. Annually.

CSCI 45100. SENIOR INDEPENDENT STUDY – SEMESTER ONE
The first semester of the Senior Independent Study project, in which each student engages in creative and independent research guided by a faculty mentor and which culminates in a thesis and an oral examination in the second semester. Prerequisite: CSCI 20000.

CSCI 45200. SENIOR INDEPENDENT STUDY – SEMESTER TWO
The second semester of the Senior Independent Study project, which culminates in the thesis and an oral examination. Prerequisite: CSCI 45100.
FRENCH AND FRANCOPHONE STUDIES

FACULTY:
Greg Shaya, Chair
Jerri Baxstrom
Marion Duval
Harry Gamble
Shureka Nyawalo
Justine Pion (Language Assistant)

The Department of French and Francophone Studies offers a program of courses, opportunities, and mentoring with four broad objectives: (1) to develop high proficiency in the French language; (2) to promote knowledge and appreciation of the histories, literatures, and cultures of French-speaking countries; (3) to develop critical thinking and analytical skills; (4) and to prepare students for success in a diverse world marked increasingly by globalization. The Department of French and Francophone Studies actively embraces interdisciplinarity. Majors and minors regularly go on to complete graduate programs in a broad range of fields. Many graduates pursue careers in areas such as teaching, public service, diplomacy, international aid development, and health, publishing, translation, interpreting, the travel industry, business, banking, and law. All courses in the department are taught in French, with the exception of FREN 25300.

Major in French and Francophone Studies
Consists of eleven courses:
• FREN 21600
• FREN 22000
• FREN 22400
• Six elective courses at the 200-level or above. FREN 20100 (French Conversation) and FREN 20300 (French Composition) may count as electives. Electives must include at least two 300-level courses taken at The College of Wooster.
• Senior Independent Study: FREN 45100
• Senior Independent Study: FREN 45200

Minor in French and Francophone Studies
Consists of eight courses:
• FREN 21600
• FREN 22000
• FREN 22400
• Three elective courses in the department, at the 200-level or above. Electives must include at least one 300-level course taken at The College of Wooster.

Special Notes: general
• Study Abroad: To assure linguistic competence and in-depth understanding of Francophone cultures, the department strongly encourages study off-campus and will provide guidance on choosing a study abroad program. All majors should normally plan to spend at least a semester in a French-speaking country. Minors are also encouraged to study abroad.

• La Maison française: Students with a strong interest in French and Francophone Studies are encouraged to apply to live in the Maison française, located in Luce Hall. The Maison française offers a convivial, stimulating atmosphere. Weekly cultural and social events allow students to improve their French and broaden their knowledge of the Francophone world. A language assistant from a Francophone country lives in the Maison française and helps organize daily conversations and weekly events. Applications are normally due in late February.

• Advanced Placement: Students who receive a score of 4 or 5 on the CEEB Advanced Placement Examination may count this credit toward a major or minor in French and Francophone Studies. Students who have taken the Advanced Placement Examination are still required, regardless of the score received, to take the departmental placement exam at the College to determine the next appropriate course.

Special Notes: majors
• The department actively supports double majors and will work closely with students to design an appropriate program of study. Students in recent years have combined their French and Francophone Studies major with majors in Art and Art History, Chemistry, English, Economics, Global and International Studies, History, Philosophy, Religious Studies, Sociology and Anthropology, and Spanish.
• To provide continuity, at least one course in French and Francophone Studies should normally be taken each semester of
the junior year (for students on campus) and the senior year, in addition to Independent Study.
• A maximum of four courses taken during a semester off campus may be counted towards the major. Students spending
an entire year off campus may count a maximum of seven courses towards the major.
• No more than one French and Francophone Studies course taught in English may count toward the major.
• Majors are not permitted to take courses in the department on an S/NC (pass/fail) basis.
• Only grades of C- or better are accepted for the major.
• Majors interested in French and Francophone Studies as preparation for a career in international business or finance
should consider the Interdisciplinary Minor in International Business Economics (see full description under Business
Economics).

Special Notes: minors
• Minors may take up to three of the required six courses off-campus.
• Only grades of C- or better are accepted for the minor.

Special Notes: The College’s foreign language requirement
• Students who wish to meet the College’s language requirement in French by taking summer school courses or by partici-
pating in an off-campus program whose courses are fewer than four semester-hours are required to consult the chairperson
of the Department of French and Francophone Studies prior to such study. Students who complete such courses may subse-
quently be required to take the departmental placement exam to demonstrate proficiency through the FREN 10100 or 1020
level.
• If a student registers for and completes a course in French below the level at which the French placement exam placed
him or her, that student will not receive credit toward graduation for that course, unless special permission was obtained
from the instructor of the course and the Department Chair.

COURSES IN FRENCH AND FRANCOPHONE STUDIES

FREN 10100. LEVEL I BEGINNING FRENCH
An introduction to understanding, speaking, reading, and writing French. Acquisition of basic structure, conversational practice, short read-

FREN 10200. LEVEL II BEGINNING FRENCH
Continuation of FREN 10100 with increased emphasis on conversational, reading, and writing skills. 
Prerequisite: FREN 10100 or placement. Annually. Spring.

FREN 20100. FRENCH CONVERSATION
Intensive practice in conversational French. Course includes cultural explorations in the Francophone world and work with grammar, vo-
cabulary, and appropriate texts. Prerequisite: FREN 10200 or equivalent. Annually. Fall. [C]

FREN 20300. FRENCH COMPOSITION
Intensive practice in writing and reading, with a focus on writing strategies, the writing process, and different kinds of writing. Continued
study of French vocabulary and grammar. Prerequisite: FREN 10200 or equivalent. Annually. Spring.

FREN 21600. ADVANCED FRENCH
Practice in listening, speaking, reading, and writing at an advanced level. Review of linguistic structures focusing on questions of usage and
style. Extensive use of multi-media resources; reading on multiple topics. Prerequisite: FREN 20300 or equivalent. Annually. Fall. [C]

FREN 21800. FRENCH PHONOLOGY
Introduction to phonetics and phonology of the French language. Analysis of spoken French, including phonetic transcription. Extensive
use of audio materials. Oral drill to improve pronunciation and diction. Prerequisite: FREN 21600 or equivalent. Spring. [AH]

FREN 22000. INTRODUCTION TO FRENCH AND FRANCOPHONE TEXTS (Comparative Literature)
Introduction to textual analysis through readings in genres representative of seventeenth to twentieth centuries. Intensive study of selected
passages to develop a critical approach. Practice in speaking and writing on literature. Prerequisite: FREN 21600 or permission of the instructor. 
Annually. Fall. [C, W, AH]
FREN 22400-24006. STUDIES IN FRENCH / FRANCOPHONE CULTURE AND SOCIETY
Introduction to cultural, historical, and societal analysis. Topic changes from year to year. May be taken twice for credit, as offerings vary. 
Prerequisite: FREN 21600 or permission of the instructor. Annually. Spring. [C, AH]

22403. CONTEMPORARY FRANCE
This course uses a number of different lenses to explore French society, French identity, and the French state from World War Two to the present. Topics to be covered include: the modernization of France; work, unemployment and the welfare state; the French school system; and immigration and national identity.

22406. NORTH AFRICA AND FRANCE
This course explores France’s deep and often problematic relationships with the francophone Maghreb (Morocco, Algeria, and Tunisia). Through a selection of historical and cultural readings, memoirs, novels and films, the course examines the evolution of these relationships from the nineteenth century and up to the present day.

FREN 25300-25301. TOPICS IN FRANCOPHONE LITERATURE AND SOCIETY: FRANCOPHONE FILM (Comparative Literature, Film Studies)
Taught in English. A study of Francophone film from its origins in the work of Méliès and the Lumière Brothers through film noir, poetic realism, and the New Wave to the contemporary period. Various cinematic techniques and theories are illustrated by texts from such major French auteurs as Renoir, Cocteau, Tavernier, Buñuel, Resnais, Carné, Truffaut, Godard, Varda, and others. Some attention to selected examples of Quebecois film. [C, AH]

FREN 31000. FRENCH THEATER
This course explores the evolution of French theater from the seventeenth century to the present through the study of works by major playwrights, including Corneille, Molière, Racine, Marivaux, Beaumarchais, Rostand, Jarry, Sartre, Beckett and Reza. Attention will be paid to dramatic theory and to the historical and cultural contexts in which plays were produced. Prerequisite: FREN 22000 or FREN 22400. [C, AH]

FREN 32000. STUDIES IN THE MIDDLE AGES AND THE RENAISSANCE (Comparative Literature)
An examination of works that reflect the evolution of values and institutions from the twelfth century through the sixteenth. Includes an introduction to Old French. Authors studied include Rabelais, Du Bellay, Ronsard, and Montaigne. Prerequisite: FREN 22000 or FREN 22400. [C, AH]

FREN 32200. STUDIES IN THE SEVENTEENTH CENTURY. SEEING IS BELIEVING? DISTINGUISHING TRUTH AND FICTION IN THE SEVENTEENTH CENTURY (Comparative Literature)
An examination of works that explore the relationship between language, art, knowledge and power in the Age of Absolutism. Authors studied include Mme. de Lafayette, Madeleine de Scudéry, Racine, La Fontaine and Molière. Prerequisite: FREN 22000 or FREN 22400. [C, AH]

FREN 32900. STUDIES IN THE TWENTIETH AND TWENTY-FIRST CENTURIES (Comparative Literature, Film Studies)
An examination of works that reflect the cultural, psychological, and literary dislocation of the twentieth century. Authors studied may include Camus, Colette, Beauvoir, Sartre, Gide, Duras, and Robbe-Grillet. Prerequisite: FREN 22000 or FREN 22400. [C, AH]

FREN 33000-33005. FRENCH/FRANCOPHONE LITERATURE, CULTURE AND SOCIETY
Advanced studies of particular dimensions of the French-speaking world. Prerequisite: FREN 22000 or FREN 22400. [C, AH]

FREN 33001. JOURNEYS IN THE FRENCH-SPEAKING CARIBBEAN
This course examines the complex history and diverse cultural encounters that have shaped Haiti, Martinique, Guadeloupe, and French Guiana. These territories will be situated and studied within the broad context of the Atlantic world, with particular emphasis on intersections with France and the United States.

FREN 33002. REMEMBERING WAR: TWENTIETH-CENTURY FRANCE
This course explores the memory of the First World War, the Second World War and the Algerian War of Independence in French society. This examination will be conducted through literature, films and historiographical texts.

FREN 33003. YOUTH AND EDUCATION IN FRANCE: FROM MAY 1968 TO THE PRESENT
This course examines contemporary France through the experiences of the nation’s youth. Throughout the semester, we will compare the challenges of being young, going to school, and growing up in France to equivalent experiences in the United States or in other countries.

FREN 33500. LITERATURE AND CULTURE OF FRANCOPHONE AFRICA (Africana Studies, Comparative Literature)
This course explores the fictional works of major Francophone writers such as Mariama Bâ, Mongo Beti, Fatou Diome, Ahmadou Kourouma, Léopold Sédar Senghor, and Camara Laye. Considerable attention is given to the historical and cultural contexts in which these novels were produced. Students will also approach the history and culture of Francophone Africa through a selection of films. Prerequisite: FREN 22000 or FREN 22400. [C, AH]
FREN 41000. INTERNSHIP
A structured, usually off-campus experience, in which a student extends classroom knowledge to a work position within a community, business, or governmental organization. Student interns work and learn under the joint guidance of a host organization supervisor and a College of Wooster mentor. The student must arrange the internship in advance through the appropriate department or program. No more than six internships, and a maximum of four Wooster course credits, will count toward graduation. The form for registering for an internship and the Internship Learning Plan are available in the office of the Registrar. (0.25-4 course credits) S/NC course. Prerequisite: The approval of a College of Wooster mentor, department chair, the faculty adviser, and the Associate Dean for Experiential Learning is required. Annually.

FREN 45100. SENIOR INDEPENDENT STUDY – SEMESTER ONE
The first semester of the Senior Independent Study project, in which each student engages in creative and independent research guided by a faculty mentor. Prerequisite: FREN 40100.

FREN 45200. SENIOR INDEPENDENT STUDY – SEMESTER TWO
The second semester of the Senior Independent Study project, which culminates in the finished thesis or an equivalent project and an oral examination. Prerequisite: FREN 45100.

OFF-CAMPUS STUDY
Programs endorsed by the department include:

JUNIOR YEAR IN FRANCE (PARIS)
Semester or academic year program offering courses in a variety of disciplines both at the Sweet Briar center, and at universities and specialized schools in Paris. A limited number of internships in government or social agencies are available.

INSTITUTE FOR THE INTERNATIONAL EDUCATION OF STUDENTS (IES) IN NANTES OR PARIS
Semester or academic year program offering courses in a variety of disciplines both at the Institute and at universities and specialized schools in Paris or Nantes. Possibility of teaching assistantships in English and other internships in businesses.

WOOSTER IN BESANÇON
A one-semester program of intensive language study at the Centre de Linguistique Appliquée of the University of Besançon. A Wooster graduate who teaches at the Centre serves as the College’s agent there. Particularly appropriate for students at the beginning or early intermediate level in French.

DICKINSON IN TOULOUSE
Semester or academic year program offering courses in a variety of disciplines both at the Dickinson Study Center and at the universities and specialized schools in Toulouse. Possibility of internships in business, education, the arts, and applied sciences.

SCHOOL FOR INTERNATIONAL TRAINING (SIT).
Approved programs in Morocco, Madagascar, Switzerland, and Tunisia. SIT offers field-based, experiential programs with a variety of themes.

For more details, see the website of the Office of Off-Campus Studies.
MUSIC

FACULTY:
Carrie Culver, Co-Chair
Lisa Wong, Co-Chair
Nancy Ditmer
Timothy Freeze
Jack Gallagher
Jonathan Guez
Jeffrey Lindberg
Peter Mowrey
Paul Sherrill
Thomas Wood
Josephine Wright

The College of Wooster has been an accredited institutional member of the National Association of Schools of Music since 1947. The requirements for entrance and for graduation as set forth in this catalogue are in accordance with the published standards of the National Association of Schools of Music.

The Department of Music provides students with comprehensive training in performance, composition, music theory, music education, music therapy, and music history and literature. The successful Wooster Music major will graduate with greatly enhanced musicality and technique, a deeper understanding of musical structure and style, and thorough preparation for a lifetime of musicianship. Depending on the degree, the Music major will be well prepared to seek a career as a professional musician; to teach music in public and private schools or in private studios; to utilize music as a therapeutic tool; and/or to continue study at the graduate level.

The Department of Music has the following learning goals. By the completion of their studies, Wooster’s music graduates should be able:

• to grow significantly as performers, through intensive study of technical craft, expressive musicianship, musical structure, and the stylistic practices of diverse historical periods and genres, with the end goal of creating performances of artistic beauty and mature musicality;
• to practice and learn music effectively independent of a teacher;
• to become valuable, significant participants in music ensembles of various sizes and musical styles;
• to speak and write effectively about music, perform quality research, and develop the skills of musical scholarship;
• to broaden understanding of the intricacies of musical structure—harmony, melody, rhythm, texture, form, counterpoint, dynamics, articulation, and timbre—and how they interact to generate musical experience;
• to learn about and research the historical context and stylistic evolution of music of various cultures throughout history and around the world, and to become better and more broadly acquainted with significant musical works;
• to gain a working knowledge of electronic music technology applications and the principles that underlie them;
• with the B.M. degree in performance and the B.M.E. degree in public school teaching, to be able to teach vocal or instrumental music-making to students at elementary and intermediate levels;
• with the B.M.E. Degree in public school teaching, to possess the knowledge and teaching skills to design and implement effectively a comprehensive music program in a public or private school, grades Pre-K-12;
• with the B.M.T. degree in music therapy, to possess the knowledge and skills to design and implement effectively a comprehensive music therapy program for a variety of populations.

Major in Music
The Department of Music offers the following six degree programs in Music:

The liberal arts degree: Bachelor of Arts in Music
Pre-professional degrees: Bachelor of Music in Performance*
                               Bachelor of Music in Composition *
                               Bachelor of Music Therapy*
                               Bachelor of Music Education in Public School Teaching*

Degrees marked with an asterisk (*) require a successful audition for entrance into the program. Please see the Handbook for Music Students and Faculty for further details.
Copies of the *Handbook for Music Students and Faculty* are available at the Administrative Coordinator’s office, Scheide Music Center, Room 112. They are also distributed during the first few days of classes to all students taking MUSC 10000 and 10100. The *Handbook* contains thorough information on the following topics:

- Music Department mission statement and learning goals
- Music facilities and policies for their use
- Descriptions and requirements of the six degree programs in Music
- Selecting and declaring the appropriate Music major
- Entrance auditions for the pre-professional degree programs in Music
- Student recitals
- Recital and concert attendance requirements for Music majors
- Staff accompanists
- Applied music study (private lessons)
- Independent Study in Music
- Piano Proficiency Exam, required of all Music majors
- Student employment in Music
- College-owned instruments
- Music Department faculty members

The descriptions below provide only an “at-a-glance” summary of requirements for the six degree programs in Music. Please see the *Degree Requirements* section of this Catalogue and the *Handbook for Music Students and Faculty* for complete information.

**Required of all Music majors, regardless of degree:**

- Recital attendance requirement: 10 events per semester (see *Handbook* for details)
- Successful performance on the Piano Proficiency Examination (see *Handbook* for details)
- Specific course requirements (see individual degree listings in *Degree Requirements* section of this Catalogue)

**BACHELOR OF ARTS IN MUSIC**

Consists of twelve to fifteen course credits:

- MUSC 10100, 10200, 20100, 20200, and 30100
- MUSC 21200 and 21300
- One period course in Music History & Literature (typically 19900 or 31100)
- One additional course in Music History and Literature (21400-21900 or AFST 21200)
- 1 credit in applied music lessons (MUSC 12000-14000, 22000-24000)
- 0–2 credits in music electives (see Special Note)
- Junior Independent Study: MUSC 40100
- Senior Independent Study: MUSC 45100
- Senior Independent Study: MUSC 45200

**Special Note**

Music Theory 10100 and 10200 require concurrent enrollment in a quarter-credit Class Piano course (MUSC 18100/18200) unless the student places out of this requirement; for many students, then, one half-credit of “music electives” will be in Class Piano.

**BACHELOR OF ARTS IN MUSIC PERFORMANCE**

Consists of twenty-four course credits:

- MUSC 10100, 10200, 20100, 20200, 30100, 30200, 30300, and 30400
- MUSC 21200 and 21300
- One period course in Music History & Literature (typically 19900 or 31100)
- One additional course in Music History and Literature (21400-21900 or AFST 21200)
- MUSC 28000
- One of the following courses: MUSC 37000 or 37100
- 3–5 credits in applied music lessons (MUSC 12000–14000, 22000–24000)
- 1.25 credits in music ensembles (see Degree Requirements for details)
- 1.75–3.75 credits in music electives (see Special Notes)
BACHELOR OF ARTS IN MUSIC PERFORMANCE (continued)

- Junior Independent Study: MUSC 40100
- Senior Independent Study: MUSC 45100
- Senior Independent Study: MUSC 45200

Special Notes
1. Required courses outside the major differ from those of the B.A. degree; see Degree Requirements for details.
2. Music Theory 10100 and 10200 require concurrent enrollment in a quarter-credit class piano course (MUSC 18100/18200) unless the student places out of this requirement; for many students, then, one half-credit of “music electives” will be in Class Piano.

BACHELOR OF MUSIC IN COMPOSITION

Consists of twenty-four course credits:
- MUSC 10100, 10200, 20100, 20200, 30100, 30200, 30300, 30400, and 30500
- MUSC 21200, 21300, and 31100
- One additional course in Music History & Literature (21400-21900 or AFST 21200)
- MUSC 28000
- 2 credits in applied music lessons (MUSC 12000–14000, 22000–24000)
- 1 credit in composition (MUSC 20800, 20900, 30800, 30900)
- 1.25 credits in music ensembles (see Degree Requirements for details)
- 2.25 credits in music electives (see Special Notes)
- Junior Independent Study: MUSC 40100
- Senior Independent Study: MUSC 45100
- Senior Independent Study: MUSC 45200

Special Notes
1. Required courses outside the major differ from those of the B.A. degree; see Degree Requirements for details.
2. Music Theory 10100 and 10200 require concurrent enrollment in a quarter-credit class piano course (MUSC 18100/18200) unless the student places out of this requirement; for many students, then, one half-credit of “music electives” will be in Class Piano.

BACHELOR OF MUSIC THERAPY*

Consists of twenty-three course credits inside the Music Department (39.25 credits total):
- MUSC 10100, 10200, 20100, 20200, 30100, 30300, and 30500
- MUSC 17000, 17700, and 17800
- MUSC 19000, 19100, 29100, 29200, 29300, 29400, and 29500
- MUSC 21200 and 21300
- One additional course in Music History & Literature (21400-21900 or AFST 21200)
- MUSC 28000
- MUSC 37000 and 37200
- MUSC 39200, 39300, and 39400
- 3.5 credits in applied music lessons (MUSC 12000–14000, 22000–24000)
- Half-recital on major instrument (see Handbook for details)
- 0.75 course credit in music ensembles (see Degree Requirements for details)
- MUSC 41000 (Music Therapy Internship)
- 0.5 credits in electives (see Special Notes)

Special Notes
1. Required courses outside the major differ from those of the B.A. degree (including EDUC 20000; PSYC 10000, 21200, and 25000; SOCI 10000; see Degree Requirements for details.
2. Music Theory 10100 and 10200 require concurrent enrollment in a quarter-credit class piano course (MUSC 18100/18200) unless the student places out of this requirement; for many students, then, the half-credit of “music electives” will be in Class Piano.

*Please note: This degree program is pending approval from the National Association of Schools of Music and the American Music Therapy Association.
BACHELOR OF MUSIC EDUCATION IN PUBLIC SCHOOL TEACHING

Consists of 22.50 course credits inside the Music Department (36 to 38.25 credits total):

- MUSC 10100, 10200, 20100, 20200, 30100, 30300, 30500, and 30600
- MUSC 21200, and 21300
- One additional course in Music History & Literature (21400-21900 or AFST 21200)
- MUSC 17000, 17100, 17200, 17300, 17400, 17500, 17600, and 17700
- MUSC 28000
- MUSC 29000, 34200, 34300, and 34400
- MUSC 37000 and 37200
- MUSC 39500
- 4 credits in applied music lessons (MUSC 12000–14000, 22000–24000)
- Half-recital on major instrument (see Handbook for details)
- 1.25 credits in music ensembles (see Degree Requirements for details)
- MUSC 49600, 49700, and 49800 (Multiage Student Teaching and Seminar)
- 0.5 credits in electives (see Special Notes)

Special Notes

1. Required courses outside the major differ from those of the B.A. degree (including EDUC 10000, 12000, and 30000; and PSYC 11000); see Degree Requirements for details.

2. Music Theory 10100 and 10200 require concurrent enrollment in a quarter-credit Class Piano course (MUSC 18100/18200) unless the student places out of this requirement; for many students, then, the half-credit of “music electives” will be in Class Piano.

Minor in Music

Consists of six course credits:

- Two courses in music theory (from 10100, 10200, 20100, 20200, 30100)
- Two courses in music history and literature (may include MUSC 11100 and other courses without prerequisite)
- Two credits in music electives (may include music performance, music ensemble, music theory, and/or music history)

Special Note

Music Theory 10100 and 10200 require concurrent enrollment in a quarter-credit Class Piano course (MUSC 18100/18200) unless the student places out of this requirement; for many students, then, one half-credit of “music electives” will be in Class Piano.

Special Notes for all Music Students

- Only grades of C- or better are accepted for the major or minor.
- Advanced Placement: The advanced placement policy of the College is explained in the section on Admission.
- Gateway Courses/Non Majors Courses: Many students have found music courses to be a valuable supplement to their major in the natural and social sciences and other humanities departments. Any student may take these courses, regardless of prior musical background. The 200-level courses below may also be taken as Music electives by Music majors. Students who wish to take upper-level music history courses and advanced music theory courses are strongly encouraged, given appropriate background, to take MUSC 10100 (Music Theory I) and co-requisite MUSC 18100 (Class...
- MUSC 10000. Fundamentals of Music
- MUSC 11100. Introduction to Music
- MUSC 19900. Special Topics in Music
- AFST 21200. Survey of African-American Folklore: The Creative and Performing Arts
- MUSC 21400. History of African American Music
- MUSC 21600. The Art of Rock Music
- MUSC 21700. Survey of Jazz
- MUSC 21900. Women in Music
- MUSC 29000. Foundations of Music Education
- MUSC 31100. Seminar in Music Literature
MUSIC COURSE DESCRIPTIONS

Courses open to all students, without prerequisites. Any student may take these courses, regardless of prior musical background. The 200-level courses may also be taken as Music electives by Music majors. One credit per course.

MUSC 10000. FUNDAMENTALS OF MUSIC
Reading and aural recognition of single pitches, intervals, scales, triads, time values, key signatures, and other basic elements of music. Recommended for students with little or no musical background. Does not count toward either the major or minor in Music.

MUSC 11100. INTRODUCTION TO MUSIC
An introduction to the appreciation of Western art music with an emphasis on hearing, recognizing, and relating the elements of music in an increasingly informed context. Topics will focus on major composers from the Middle Ages to modern times and will explore the range of meaning and value that their works have had and continue to have, by drawing connections between music and other humanities as well as the social and natural sciences. The course might include some jazz, popular music, and non-Western music. In addition to listening and reading, students will attend concerts and prepare written assignments. No previous musical background necessary. Does not count toward a major in Music.

MUSC 21400. HISTORY OF AFRICAN AMERICAN MUSIC (Africana Studies)
Study of the history of African American music from 1619 through the present day. Focuses on the socio-historical context in which popular music, folk music, classical music, and religious music evolved. Topics include spiritual, blues, gospel, jazz, rhythm and blues, and contemporary music as well as women in music. Open to non-Music majors. No technical knowledge required.

MUSC 21600. THE ART OF ROCK MUSIC
The study of the artistic and aesthetic potential of rock music. Areas of emphasis may include the history and analysis of rock music; rock music aesthetics and their relationship to the aesthetics of other music and art forms; the evolution of rock musical styles; the connections between rock, poetry, and literature; “covering,” quotation, and stylistic borrowing in rock music; the impact of the electronic music revolution; and the live performance of rock.

MUSC 21700. SURVEY OF JAZZ (Africana Studies)
A study of jazz from its inception to the present, including the New Orleans, swing, bebop, cool, hard bop, free jazz, and jazz-rock fusion styles, as well as major individual musicians such as Louis Armstrong, Duke Ellington, and Charlie Parker. Special assignments for Music majors and minors.

AFST 21200. SURVEY OF AFRICAN-AMERICAN FOLKLORE: THE CREATIVE AND PERFORMING ARTS

MUSC 21900. WOMEN IN MUSIC (See Women’s, Gender, and Sexuality Studies)
Examination of the history of women in Western music, focusing upon women in classical music, jazz, gospel, popular music, and the blues. Topics will include the status of women as professional musicians, the economics of mainstreaming women in the music industry, and the collaborative efforts of women to achieve parity with men in the creative and performing arts. No prior musical knowledge required.

MUSIC THEORY-COMPOSITION
One credit per course unless otherwise specified.

MUSC 10100. THEORY I
Fundamentals review, diatonic triads in root position and first inversion three- and four-part writing, principles of harmonic progression. Elementary dictation, sightsinging, and keyboard skills. Required of all majors and minors in Music. Concurrent enrollment in MUSC 18100 required unless a higher level of piano skill (as determined through audition) has been attained or the piano proficiency requirement for Music majors has already been completed. Prerequisite: MUSC 10000; or prior training in fundamentals and fluent ability as measured by a placement test administered during ARCH or at the beginning of Fall Semester.

MUSC 10200. THEORY II
First and second inversions, cadences, elementary form, non-chord tones, diatonic seventh chords. Related dictation, sightsinging, and keyboard skills. Required of all majors and minors in Music. Concurrent enrollment in MUSC 18200 required unless a higher level of piano skill (as determined through audition) has been attained or the piano proficiency requirement for Music majors has already been completed. Prerequisite: C- or better in MUSC 10100.

MUSC 20100. THEORY III
Secondary functions, modulation, less common seventh chords, binary and ternary forms. Related dictation, sightsinging, and keyboard skills. Required of all majors in Music. Prerequisites: C- or better in MUSC 10200, and concurrent enrollment in MUSC 13200 or completion of the piano proficiency requirement.

MUSC 20200. THEORY IV
Advanced chromatic techniques in tonal music prior to the 20th century. Related dictation, sightsinging, and keyboard skills. Required of all majors in Music. Prerequisites: C- or better in MUSC 20100, and concurrent enrollment in MUSC 13200 or completion of the piano proficiency requirement.
MUSC 20800. ACOUSTIC COMPOSITION
Original writing for various instrumental and vocal media in small and large forms. Emphasis will be placed on acquiring a foundation in the basic compositional techniques and developing an ability to organize musical ideas into logical and homogeneous forms. One half-hour private lesson per week. 0.5 course credits. Prerequisite: MUSC 10200.

MUSC 20900. ELECTRONIC COMPOSITION
Original writing for electronic media. Emphasis will be placed on acquiring a foundation in the basic compositional techniques and developing an ability to organize musical ideas into logical and organic forms. One half-hour private lesson per week. 0.5 course credits. Prerequisite: MUSC 10200 and either MUSC 18000 or 28000.

MUSC 30100. THEORY OF MUSIC SINCE 1900
20th- and 21st-century techniques and related sightsinging/keyboard skills. Required of all majors in Music. Prerequisites: C- or better in MUSC 20200, and successful completion of the piano proficiency examination.

MUSC 30200. FORM AND ANALYSIS
Advanced harmonic, contrapuntal, and structural analysis of all types of musical composition. Required of all B.M. majors. Prerequisite: MUSC 20200.

MUSC 30300. BASIC CONDUCTING
A course designed to introduce the fundamental skills of conducting, including basic symmetric and asymmetric patterns, expressive gestures, cues, fermatas, and the development of independence of the right and left hands. Attention is also given to transposition, instrumental score reading, score preparation, and ensemble rehearsal techniques. Required of all B.M. and B.M.E. majors. Prerequisite: MUSC 10200.

MUSC 30400. COUNTERPOINT
Study of the basic polyphonic principles of the sixteenth and eighteenth centuries, including species counterpoint, imitation, canon, invertible counterpoint, two- and three-part inventions, and fugue. Required of all B.M. majors. Prerequisite: MUSC 10200.

MUSC 30500. ORCHESTRATION
A theoretical and practical study of instrumentation and scoring music for various instrumental combinations. Required of B.M. in Composition, B.M. in Music History/Literature, and B.M.E. majors. Composition majors should take the course as early as possible. Prerequisite: MUSC 20200.

MUSC 30600. CHORAL CONDUCTING
A course devoted to the specific skills and techniques required for choral conductors. Score preparation, gestures, text analysis, diction, and general aspects of good singing are among the several foci of this course. Two class hours per week. 0.5 course credits. Prerequisite: MUSC 30300.

MUSC 30800. ACOUSTIC COMPOSITION
Original writing for various instrumental and vocal media in small and large forms. Emphasis will be placed on acquiring a foundation in the basic compositional techniques and developing an ability to organize musical ideas into logical and homogeneous forms. One hour private lesson per week. Prerequisite: MUSC 10200.

MUSC 30900. ELECTRONIC COMPOSITION
Original writing for electronic media. Emphasis will be placed on acquiring a foundation in the basic compositional techniques and developing an ability to organize musical ideas into logical and organic forms. One hour private lesson per week. Prerequisite: MUSC 10200 and either MUSC 18000 or 28000.

MUSIC HISTORY AND LITERATURE
One credit per course unless otherwise specified.

MUSC 212. SURVEY OF MUSIC HISTORY AND LITERATURE I
A survey of the development of major musical styles from antiquity through the Classical period. Required of all music majors. Prerequisite: MUSC 10200 or permission of the instructor.

MUSC 213. SURVEY OF MUSIC HISTORY AND LITERATURE II
A survey of the development of major musical styles from the Romantic period through the present. Required of all music majors. Prerequisite: MUSC 10200 and 21200 or permission of the instructor.

MUSC 31100. SEMINAR IN MUSIC LITERATURE
Selected historical studies. Topics have included The Song Cycle, Music of Living Composers, Bach, Haydn, Brahms, Mahler, Piano Literature, and Romantic Concerto. Required of B.M. (Theory/Composition) majors. Prerequisite: MUSC 10200 or permission of the instructor.
PERFORMANCE

MUSC 12000-14000, 22000-24000. PERFORMANCE

Please see the “Applied Music Study” section of the Handbook for Music Students and Faculty for details about performance study, special requirements for Performance majors on different instruments, applied music requirements for Music Education majors, required recitals for all Music majors, and private lessons for non-Music majors.

For non-majors, private performance lessons are normally taken at the 100-level for one-half (.5) course credit; for half-credit lessons, the practice expectation is one-and-a-half hours per day. A one-hour lesson per week (200-level) for one full (1.000) course credit is primarily for declared and prospective performance majors and requires three hours of daily practice and performance in at least one departmental recital during the semester. Advanced students who are not music performance majors may, with the approval of the Chair and private teacher, enroll for weekly one-hour lessons for one full course credit, provided they meet the practice and recital requirements listed above.

Please see the Handbook for further information, and please see the Expenses section of this Catalogue for information about lesson fees.

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<th>Instrument</th>
<th>12000/22000</th>
<th>12700/22700</th>
<th>13400/23400</th>
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<td>FLUTE</td>
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CLASS INSTRUCTION IN MUSIC

MUSC 15000-15700. ENSEMBLE

In addition to the larger performing groups (Band, Orchestra, etc.), smaller groups such as string, woodwind, percussion, and brass ensembles function as there is a demand or requirement. One to one and one-half hours per week. 0.125 course credits. S/NC course. Prerequisite: Permission of instructor. Annually. Fall and Spring.

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<td>15000. ACCOMPANYING</td>
<td>15300. CLASS STRING INSTRUMENTS</td>
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<tr>
<td>15100. BRASS ENSEMBLE</td>
<td>15350. STRING BASS</td>
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<td>15200. GUITAR ENSEMBLE</td>
<td>15500. PERCUSSION ENSEMBLE</td>
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<td>15300. JAZZ COMBO</td>
<td>15600. STRING ENSEMBLE</td>
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<td>15400. KEYBOARD ENSEMBLE</td>
<td>15700. WOODWIND ENSEMBLE</td>
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Students are expected to practice 30-45 minutes per day for courses MUSC 17000-17800 and 37200.

MUSC 17000. CLASS VOICE

Study and development of basic individual vocal technique. Designed for Music Education and Music Therapy students. Required of all B.M.E. and B.M.T. majors whose primary performance area is instrumental. 0.25 course credit each. Prerequisite: MUSC 10200 or permission of the instructor.

MUSC 17100, 17200. CLASS BRASS INSTRUMENTS

Study of the mechanics of playing and instructional materials and procedures relative to brass instruments of the orchestra and band. MUSC 17100 covers trumpet and french horn; MUSC 17200 covers trombone, euphonium, and tuba. One class hour per week for each of two semesters. Both courses required of B.M.E. (Public School Teaching) majors; 0.25 course credit each.

MUSC 17300, 17400. CLASS STRING INSTRUMENTS

MUSC 17300 covers violin and viola; MUSC 17400 covers cello and string bass. Limit of six in a class. One class hour per week for each of two semesters. Required of all B.M.E. majors. 0.25 course credit each.

MUSC 17500, 17600. CLASS WOODWIND INSTRUMENTS

Study of the mechanics of playing and instructional materials and procedures relative to woodwind instruments of the orchestra and band. MUSC 17500 covers flute and clarinet; MUSC 17600 covers saxophone, oboe, and bassoon. One class hour per week for each of two semesters. Both required of B.M.E. (Public School Teaching) majors. 0.25 course credit each.

MUSC 17700. CLASS PERCUSSION INSTRUMENTS

Study of the mechanics of playing and instructional materials and procedures relative to percussion instruments of the orchestra and band. One class hour per week. Required of all B.M.E. and B.M.T. majors. 0.25 course credit.

MUSC 17800. FUNCTIONAL GUITAR

A course designed for teaching Music Education and Therapy students how to use the guitar in their work. Basic strumming and finger-picking styles for song-leading and accompaniment, transposition of song material, and chording in several major and minor keys. One or two class hours per week. 0.25 course credit.
MUSC 17800. FUNCTIONAL GUITAR
A course designed for teaching Music Education and Therapy students how to use the guitar in their work. Basic strumming and finger-picking styles for song-leading and accompaniment, transposition of song material, and chording in several major and minor keys. One or two class hours per week. 0.25 course credit.

MUSC 18000. INTRODUCTION TO THE ELECTRONIC STUDIO
Hands-on experience with keyboard synthesizers, a sampler, a drum machine, sequencers, a multitrack recorder, a digital effects processor, and other electronic instruments, culminating in a creative musical project. No musical background necessary. 0.25 course credit.

MUSC 18100. CLASS PIANO 1
Study of the mechanics of playing the piano at the beginner level. Limit of 10 in a class. Two class hours per week. 18100 required of all students enrolled concurrently in 10100, unless student demonstrates sufficient piano ability to place out of the requirement. Students are expected to practice 45 minutes per day. 0.25 course credit.

MUSC 18200. CLASS PIANO 2
Study of the mechanics of playing the piano at the upper-elementary levels. Limit of 10 in a class. Two class hours per week. 18200 required with concurrent enrollment in 10200, unless student demonstrates sufficient piano ability to place out of the requirement. Students are expected to practice 45 minutes per day. 0.25 course credit.

MUSC 26400. INTRODUCTION TO JAZZ IMPROVISATION
Notation, standard forms and chord progressions, transcribing jazz solos from recordings, study of recordings, and other activities. 0.25 course credit. Prerequisite: Permission of instructor required.

MUSC 28000. INTRODUCTION TO MUSIC TECHNOLOGY
Topics may include the MIDI electronic studio; computer applications in music including music notation, music education and music theory software, and musicological research; recording technology; and other appropriate technological developments. Assignments will be tailored insofar as possible to individual students' needs and interests. Required of all B.M., B.M.E. and B.M.T. majors. 0.5 course credit.

MUSC 37000. VOCAL PEDAGOGY
Study of the anatomy and physiology of all singing voices. Examination of materials and methods relative to the vocal instrument. Required of all B.M.E., B.M.T. and B.M. Vocal Performance majors. 0.5 course credits. Prerequisite: MUSC 17000 or two semesters of MUSC 14000 or MUSC 24000.

MUSC 37100. INSTRUMENTAL PEDAGOGY
Study of the literature, instructional materials and procedures relative to the teaching of the major instrument. 0.5 course credit.

MUSC 37200. FUNCTIONAL PIANO
A course designed to give practical experience in sight-reading, transposition, accompanying, improvisation, and aural dictation, as required for certification to teach in Ohio public schools. Two hours per week. Required of all B.M.E. and B.M.T. majors. 0.5 course credits. Prerequisite: Completion of all parts of the Piano Proficiency Examination.

MUSIC EDUCATION
One credit per course unless otherwise specified.

MUSC 29000. FOUNDATIONS OF MUSIC EDUCATION
This is an introductory course for all students planning to pursue teacher licensure in music. Emphasis is on historical, cultural, and social contexts for music education as well as the role of personal expression, arts criticism, and the nature and meaning of the arts in the education of children and adolescents, ages 3-21. Topics include philosophical foundations for music teaching and learning, curriculum planning and development, goals and objectives of music programs, materials, technology, and assessment strategies. Students will also examine the music education profession, its history, and the qualities, competencies, and skills required of music teachers. Clinical experiences in the classroom and field experiences in the schools are a component of the course. Required of all B.M.E. majors.

MUSC 34200. METHODS AND MATERIALS FOR TEACHING PRE-K AND ELEMENTARY GENERAL MUSIC
This course provides a study of specific methods of delivering standards-based instruction to children, ages 3-12, in pre-school and general music classroom settings. Included is significant use of the National Standards for Arts Education and the Ohio Academic Content Standards in Music. Emphasis is on specific teaching techniques in the implementation of curriculum, classroom procedures and materials, integration of technology, instructional strategies for special needs students, and the use of various assessment strategies. Field experiences in elementary general music and preschool settings are a major component of the course. Required of all music education majors; Recommended for music therapy majors. 0.5 course credit. Prerequisite: MUSC 29000.
MUSC 34300. METHODS AND MATERIALS FOR TEACHING SECONDARY CHORAL AND GENERAL MUSIC
This course addresses the role of choral and general music instruction in secondary public school education, techniques of teaching choral music, and the study of music from various cultures appropriate to students in choral ensembles. Included is significant use of the National Standards for Arts Education and the Ohio Academic Content Standards in Music. Emphasis is on literature selection, specific teaching techniques in the implementation of curriculum, classroom procedures and materials, integration of technology, instructional strategies for special needs students, and the use of various assessment plans. Field experiences in middle and high school choral and general music settings are a major component of the course. Required of all music education majors. 0.5 course credit. Prerequisite: MUSC 29000 and 34200.

MUSC 34400. METHODS AND MATERIALS FOR TEACHING INSTRUMENTAL MUSIC
This course provides a study of specific methods of delivering instruction in instrumental music, covering band and orchestra instruments. Emphasis is on recruitment and retention of instrumental music students, appropriate teaching techniques for musical and technical concepts for instrumentalists from the beginning years through high school, integration of technology into the instrumental classroom, and differentiation of instruction for all students and especially for those with special needs. Administrative and organizational aspects are also addressed. Field experiences in grades 5-12 instrumental music settings are a major component of the course. Required of all music education majors. 0.5 course credit. Prerequisite: MUSC 29000 and 34200.

MUSC 39500. SPECIAL TOPICS IN MUSIC EDUCATION
This course provides a study of the administrative responsibilities of music educators with a focus on projects that address the specific needs of students enrolled in the course. Topics include but are not limited to contemporary issues in education and music education; educational technology; budget and finance; facilities and equipment; music library and instrument inventory management; travel; design and purchase of uniforms; music support groups; professional development for teachers; philosophical foundations and advocacy; and relationships with parents, administrators, music dealers, and private teachers. Field experience in the student teaching setting is a strong component of the course. 0.5 course credit. Prerequisite: MUSC 29000, 34200, 34300, and 34400.

MUSC 49600. MULTIAGE STUDENT TEACHING AND SEMINAR
Placement consists of a full-time, 12-week supervised teaching experience in a local, approved multiage music setting (two different levels, divided among the pre-school, K-6, 7-8, and 9-12 environments).

MUSC 49700. MULTIAGE STUDENT TEACHING AND SEMINAR
Placement consists of a full-time, 12-week supervised teaching experience in a local, approved multiage music setting (two different levels, divided among the pre-school, K-6, 7-8, and 9-12 environments).

MUSC 49800. MULTIAGE STUDENT TEACHING AND SEMINAR
Placement consists of a full-time, 12-week supervised teaching experience in a local, approved multiage music setting (two different levels, divided among the pre-school, K-6, 7-8, and 9-12 environments).

MUSIC THERAPY
All courses listed below, with the possible exception of MUSC 41000, will normally be taught at Baldwin-Wallace University in Berea by the Music Therapist who is also the Director of the Music Therapy Consortium. One credit per course is standard unless otherwise specified. Please see the Handbook for Music Students and Faculty for further information about the Music Therapy major, including acceptance requirements and the entrance exam.

MUSC 19000. INTRODUCTION TO MUSIC THERAPY
Provides an overview of the profession including current terminology, history, and practical application of Music Therapy for several client populations. Assessment of personal qualities necessary to become a music therapist is an on-going process of the class. Observation of music and related-area therapists is required in addition to classwork. Required of all B.M.T. majors. 0.5 course credit.

MUSC 19100. RECREATIONAL MUSIC – PROGRAMMING AND LEADERSHIP
The main focus of this course is students’ development of a repertoire of activities which will provide a foundation for their initial fieldwork experiences. Adaptation of activities and instruments, basic assessment of client interests and needs, and evaluation by observation are addressed as part of the fieldwork that is required as part of this course. Group leadership skills, time management, and musical skills are also emphasized through student-led activities and class demonstrations. Required of all B.M.T. majors. 0.5 course credit. Prerequisite: MUSC 19000.

MUSC 29100. MUSIC THERAPY IN PSYCHIATRY AND REHABILITATION
Clinical methods as they relate to working with psychiatric, elderly, medical, head-injured, corrections, and addiction clients. Includes a review of behavioral characteristics, treatment adaptations, current therapeutic intervention models, goals and objectives, and applicable resources. Required of all B.M.T. majors. Prerequisite: MUSC 19100.
MUSC 29200. MUSIC THERAPY WITH THE DEVELOPMENTALLY DISABLED
Clinical practice as it relates to working with mentally retarded, autistic, sensory impaired, physically challenged, and learning-disabled clients. Includes review of behavioral characteristics, treatment considerations, current therapeutic intervention models, goals and objectives, and current literature. Required of all B.M.T. majors. Prerequisite: MUSC 19100.

MUSC 29300. PRACTICUM I IN MUSIC THERAPY
Practical experience with clients in approved institutions, including a musical and behavioral assessment of the group or individual, the development and implementation of ongoing treatment procedures, and evaluation. To be taken in conjunction with MUSC 29100, 29200, and 39400. Required of all B.M.T. majors. 0.25 course credit. Prerequisite: MUSC 29100.

MUSC 29400. PRACTICUM II IN MUSIC THERAPY
Practical experience with clients in approved institutions. Continuation of MUSC 29300. Required of all B.M.T. majors. 0.25 course credit. Prerequisite: MUSC 29300.

MUSC 29500. ADVANCED PRACTICUM IN MUSIC THERAPY
Practical experience with clients in approved institutions. Continuation of MUSC 29400. Required of all B.M.T. majors. 0.25 course credit. Prerequisite: MUSC 29400.

MUSC 39200. PSYCHOLOGY OF MUSIC
Study of the basic principles of musical acoustics and the relationship between the human apparatus of hearing and actual perception of music. Research literature is reviewed for the psychology of musical abilities, emotion and meaning in music, development of musical preference, and behavior of music listeners. Required of all B.M.T. majors. 0.5 course credit. Prerequisite: MUSC 19100.

MUSC 39300. RESEARCH SEMINAR IN MUSIC THERAPY
This course provides students with practical exposure to research methods. Students will pursue independent research projects using the critical review of literature completed by them in the preceding course and augmented by instruction in test design and the most common methods of data analysis: correlation, analysis of variance, non-parametric and parametric statistics. Also includes critique of several consumer-oriented periodicals and the benefit of these publications to public education about Music Therapy. Required of all B.M.T. majors. 0.5 course credit. Prerequisite: MUSC 39200.

MUSC 39400. PROGRAM DEVELOPMENT AND ADMINISTRATION IN MUSIC THERAPY
Program planning, scheduling, budgeting, and public relations strategies are main topics. Documentation procedures, including current standards for various types of agencies, and legislative issues relating to Music Therapy practice are also covered. Music Therapy in the milieu approach and the Music Therapist as a member of the treatment team. Structure and function of local, state, and national Music Therapy organizations, including Standards of Practice and Code of Ethics. Required of all B.M.T. majors. Prerequisite: MUSC 19100.

MUSC 41000. INTERNSHIP
A six-month, full-time (1,040 clock hours) clinical experience in an American Music Therapy Association (AMTA)-approved facility. Involves general orientation to the institution, observation of the therapist, and personal involvement in observing, describing, and providing music therapy to clients. Documentation and special research projects are included according to the clinical internship training plan. Application for internship is generally initiated late in the junior year; the internship must be completed within two years of completing coursework. Required of all B.M.T. majors. 0.25 course credit. S/NC course.

GENERAL COURSES IN MUSIC
One credit per course unless otherwise specified.

MUSC 40000. TUTORIAL
Prerequisite: The approval of both the supervising faculty member and the chairperson is required prior to registration.

MUSC 40100. JUNIOR INDEPENDENT STUDY
A one-semester, creative, individual program of study in music performance, music history and literature, or music theory-composition, corresponding to the student’s degree track. The Junior I.S. in music performance leads to the presentation of a public recital 25-30 minutes in length. The Junior I.S. in music history and literature emphasizes bibliographical and research methods, major library resources, and writing style, and results in a major paper. In music composition the Junior I.S normally consists of at least two pieces in small forms planned for public performance by performers or ensembles available at the College. Junior I.S. projects in music theory yield written analyses of music.
MUSC 45100. SENIOR INDEPENDENT STUDY – SEMESTER ONE
The first semester of the Senior Independent Study, in which the student engages in a creative, individual pro- gram of study in music performance, music history and literature, music theory or composition, corresponding to the student’s degree track, which will be ultimately completed in the second semester of Senior Independent Study. The Senior I.S. in music performance leads to the presentation of a public recital 45-60 minutes in length, with a supporting document of ten pages length in the case of B.A. majors. The Senior I.S. in music history and literature emphasizes bibliographical and research methods, major library resources, and writing style, and results in a major paper at least 60 pages in length. In music composition the Senior I.S normally consists of one composition on a larger scale planned for public performance by performers or ensembles available at the College. Senior I.S. projects in music theory yield written analyses of music at least 60 pages in length. Prerequisite: MUSC 40100.

MUSC 45200. SENIOR INDEPENDENT STUDY – SEMESTER TWO
The second semester of the Senior Independent Study project, in which the student engages in and completes a creative, individual program of study in music performance, music history and literature, or music theory or composition, corresponding to the student’s degree track. Prerequisite: MUSC 45100.

GLCA ARTS PROGRAM IN NEW YORK
See Off-Campus Study.

MUSIC PERFORMANCE GROUPS
All music performance groups are graded S/NC.

MUSC 16000. WOOSTER SINGERS
A choir open to all without audition. This ensemble explores choral music of a wide range of styles and historic periods and develops sighthinging skills. Performances will be scheduled depending on the size and preparation of the ensemble. Two hours per week. Two semesters of enrollment required of all B.M., B.M.T. and B.M.E. majors (except B.M. Voice majors, who may substitute MUSC 16100 instead); these semesters must be Fall and Spring of the same year, except by permission of the instructor. 0.125 course credit.

MUSC 16100. WOOSTER CHORUS
A performing choir dedicated to the performance of the finest sacred and secular choral works of the past five centuries. In addition to presenting several programs on campus each year, the Wooster Chorus makes a con- cert tour during spring vacation. Admission is by audition. Five hours per week. 0.125 course credit.

MUSC 16200. WOOSTER SYMPHONY ORCHESTRA
A performing organization comprised of students and members of the community devoted to the study and performance of the standard orchestral repertoire from the baroque to the contemporary. Admission is by audition. Four hours per week. Four regular concerts per year. 0.125 course credit.

MUSC 16300. SCOT BAND
A performing organization whose emphasis during the fall season is on marching, with the latest techniques and best quality of appropriate music being prepared and performed. In winter and spring the band studies and performs the best in band literature from all periods for performance on tour and for home audiences. Admission to the Symphonic Band is by audition. Membership in the Marching Band is open to any student without audition. Four hours per week. 0.125 course credit.

MUSC 16400. WOOSTER JAZZ ENSEMBLE
A performing organization which prepares and performs suitable literature in the jazz idiom for large ensemble. Opportunity is given for composing, arranging, and improvisation. Three hours per week. 0.125 course credit.

MUSC 16500. GOSPEL CHOIR (Africana Studies)
A performing organization, open to any student, faculty, or staff person at the College and to members of the community, offering live performance in a secular context of serious African American choral music. Two hours per week. 0.125 course credit.

MUSC 16600. OPERA WORKSHOP
A performing organization that presents staged performances of arias, scenes, and one-acts taken from the standard and contemporary operatic and lyric theatre repertoire. 0.25 course credit. May be taken more than once. Prerequisite: Permission of instructor required.
RUSSIAN STUDIES

FACULTY:
Beth Ann Muellner, Chair (German Studies)
Tatiana Filimonova
Michael Furman
Olesya Taran (Language Assistant)

Russian Studies is an interdisciplinary area focused on Russia and Eastern Europe in cultural, literary, historical, philosophical, and political contexts. It is one of several programs at the College that provides students with the opportunity to develop proficiency in a foreign language in connection with their other academic and professional interests. The department offers courses in three areas: 1) Russian language, 2) Russian culture, and 3) Russian literature. These, together with courses in history and comparative literature, give students a strong background in Russia and Eastern Europe.

Recent graduates in Russian Studies have embarked on employment in government service, non-governmental organizations, and private companies, both in the United States and abroad. Some have gone on to graduate school, pursuing careers in such areas as law, education, library science, and academia. Recent graduates have also served in the Peace Corps in the former Soviet Union.

Major in Russian Studies
Consists of eleven courses:
- RUSS 20100
- RUSS 20200
- RUSS 21000
- One of the following courses: HIST 10100-10176 (when topic focuses on Russian history), 23000, or 30100-30142 (when topic focuses on Russian history)
- Three of the following courses: RUSS 22000, 24000, 25000, 26000, HIST 10100-10176 (when topic focuses on Russian history), 23000, or 30100-30142 (when topic focuses on Russian history)
- RUSS 40000
- Junior Independent Study: RUSS 40100
- Senior Independent Study: RUSS 45100
- Senior Independent Study: RUSS 45200

Minor in Russian Studies
Consists of six courses:
- RUSS 20100
- Five of the following courses: RUSS 20200, 21000, 22000, 23000, 25000, 26000, CMLT 24800, HIST 10100-10176, 23000, 23300, or 30100-30142

Special Notes
- The College language requirement may be satisfied in Russian by completing a 102-level course or receiving a score equivalent to the 102-level on the placement examination administered during registration week. If a student registers for and completes a course in language below the level at which the language department’s placement exam placed him or her, that student will not receive credit toward graduation for that course, unless he or she has obtained the permission of the instructor of the course into which the student placed and permission of the department chair.
- **Study Abroad:** Students will be encouraged to enhance their educational experience (or fulfill requirements for a major in International Relations) by studying in Russia or East Central Europe, and are advised to consult with the chairperson of the department in the first term of their first year of study at the College. Early planning is essential for the CIEE program in St. Petersburg, as well as for other programs such as American Councils Study Abroad in Vladimir. Approved courses taken in an off-campus semester will provide additional variety in the courses offered for the major.
• **Russian House:** Students have the opportunity to apply for residence in Russian House, a suite in Luce Hall that houses students along with a native Russian assistant and serves as the focal point for most campus Russian language and cultural activities. Applications for residency in the Russian House can be obtained from the chair and are usually due early in the spring semester.

• **Related Interdepartmental Programs:** Students interested in Russian and East Central European literature and culture should be aware of several interdepartmental programs in which the Department of Russian Studies cooperates: Comparative Literature, Film Studies, and International Relations.

• S/NC courses are not permitted in the major or minor.

• Only grades of C- or better are accepted for the major or minor.

**RUSSIAN STUDIES COURSES**

**RUSS 10100. BEGINNING RUSSIAN (LEVEL I)**
An introduction to understanding, speaking, reading, and writing Russian; acquisition of basic grammar; conversational practice and short readings. Cultural content. Five hours per week.

**RUSS 10200. BEGINNING RUSSIAN (LEVEL II)**
Continuation of RUSS 10100, with increased emphasis on conversational, reading, and writing skills. Cultural content. Prerequisite: RUSS 10100 or placement.

**HIST 10100-10136. INTRODUCTION TO HISTORICAL INVESTIGATION**
(when topic focuses on Russian history)

**RUSS 20100. INTERMEDIATE RUSSIAN (LEVEL III)**
Review and enhancement of basic grammar; practice through speaking, listening, reading, and writing. Attention to reading strategies. Exposure to cultural material. Four hours per week. Prerequisite: RUSS 10200 or placement.

**RUSS 20200. INTERMEDIATE RUSSIAN (LEVEL IV)**
Continuation of RUSS 20100, with still greater emphasis on speaking, reading, and writing. Cultural content. Prerequisite: RUSS 20100.

**RUSS 21000. RUSSIAN CIVILIZATION: FROM FOLKLORE TO PHILOSOPHY (Comparative Literature)**
An introductory and interdisciplinary study of fundamental aspects of Russian culture from medieval Russia through the post-Soviet era, with emphasis on the changing and evolving concept of Russian identity over the centuries. A broad range of texts will include folktales, memoirs, fiction, painting, poetry, philosophy, music and film.

**RUSS 22000. RUSSIAN CULTURE THROUGH FILM (Comparative Literature, Film Studies)**
An introduction to twentieth-century Russian society and culture through the medium of cinema, covering the immediate pre- and post-revolutionary periods, Stalinism, the post-Stalin “thaw,” stagnation under Brezhnev, Gorbachev’s “perestroika” and “glasnost,” and the post-communist era. Weekly screenings of films will be supplemented with readings in Russian film theory and criticism.

**RUSS 24000. IMAGINING RUSSIA (Siberia)**
Russia is the largest country in the world, occupying more than 10 percent of the world’s landmass. Russian culture is best understood through the study of its diverse spaces: the cities and the countryside, Europe and Asia, sublime mountains, vast plains and endless forests. This course focuses on geo-political and cultural space as reflected in Russian literature, film, music, and visual arts. Students explore setting and imagined geography by drawing connections between literary and cinematic text and cultural, historical, and geographical space. In alternate years, the course will focus on the following topics: Siberia, Moscow and St. Petersburg, The Urals and The Caucasus. *May be repeated once for credit.* Environmental credit granted upon completion of relevant final project.

**RUSS 25000-25001. RUSSIAN LITERATURE IN THE AGE OF DOSTOEVSKY AND TOLSTOY (Comparative Literature)**
In the nineteenth century, Russia witnessed an unprecedented explosion of literary and intellectual activity, a renaissance which yielded some of the greatest masterpieces world literature has seen. Our course will examine the seven most prominent authors of this period, with special emphasis on Russia’s unique handling of the sudden influx of European philosophy and culture (Rationalism, Idealism, Romanticism, Atheism, Socialism). Through its literary canon, we will explore how Russia envisioned the problems of modern individualism in a culture divided between European and Slavic roots.
RUSS 26000. THE ARTIST AND THE TYRANT: TWENTIETH-CENTURY RUSSIAN LITERATURE (Comparative Literature)
Russian literature developed side by side with the myths and horrors of a cataclysmic twentieth century. In this course, we will read some of the most powerful artistic meditations on the collapse of imperial Russia, on the dream and nightmare of the Soviet experiment, and on the search for dignity and meaning in the post-Soviet contemporary world. Authors include Nobel laureates Pasternak, Bunin, Solzhenitsyn and Brodsky. We will also read novels by Bulgakov and Nabokov, short stories from a host of writers from Babel to Petrushevksaya, and some of the major poetry of the era in translation.

HIST 10161. RUSSIA’S WORLD WAR II: HISTORY AND FILM
HIST 23000. RUSSIA TO 1900 M
HIST 23300. RUSSIA SINCE 1900
HIST 10161. RUSSIA’S WORLD WAR II: HISTORY AND FILM
HIST 30100-30142. PROBLEMS IN HISTORY (when topic focuses on Russian history)

RUSS 40000. TUTORIAL
Individually supervised advanced language learning. By prior arrangement with the department only. Prerequisite: RUSS 20200 or equivalent; the approval of both the supervising faculty member and the chairperson is required prior to registration.

RUSS 40100. INDEPENDENT STUDY
Bibliographical and research methods in Russian Studies, including the preparation of one longer research paper. Normally taken Semester II of the junior year.

RUSS 45100. SENIOR INDEPENDENT STUDY – SEMESTER ONE
The first semester of the Senior Independent Study project, in which each student engages in creative and independent research of a specific topic in Russian Studies guided by a faculty mentor and which culminates in a thesis and an oral examination in the second semester. Prerequisite: RUSS 40100.

RUSS 45200. SENIOR INDEPENDENT STUDY – SEMESTER TWO
The second semester of the Senior Independent Study project, which culminates in the thesis and an oral examination. Prerequisite: RUSS 45100.
BACHELOR OF MUSIC

Two majors are offered under the B.M. degree: Performance and Composition. 32 courses are required for graduation, subject to restrictions on residency, fractional credit, transfer credit, and course load. Except where noted, individual courses may be counted toward multiple requirements.

First-Year Seminar in Critical Inquiry (1 course)
Students will complete the First-Year Seminar in Critical Inquiry in their first semester.

Writing
In coordination with the First-Year Seminar Program and the Program in Writing:

- **Writing Proficiency** (0-1 courses)
  Students will demonstrate basic writing proficiency in their first year, through placement examination or completion of the College Writing course.

- **Writing Intensive Course** (1 course)
  Students will complete a course designated as Writing Intensive (W) in any semester between the completion of the First-Year Seminar and the beginning of Junior Independent Study.

Global and Cultural Perspectives

- **Foreign Language** (0-2 courses)
  Students will demonstrate proficiency in a foreign language through the second-level course in a given language sequence, through placement examination or course work.

- **Studies in Cultural Difference** (1 course)
  Students will complete a course (C) that examines either a culture outside the United States or the culture of an American minority group (e.g., African American, Asian American, Hispanic or Latino American, Native American). Courses may be taught in English or in a foreign language.

Religious Perspectives (1 course)
Students will complete a course (R) from any department or program that examines the religious dimension of humankind in relation to issues of cultural, social, historical, or ethical significance.

**Note:** A student may not use the same course in fulfillment of both the Studies in Cultural Difference requirement and the Religious Perspectives requirement.

Quantitative Reasoning (1 course)
Students will demonstrate basic quantitative proficiency through completion of a course (Q) that involves a substantial element of quantitative reasoning.

Non-Music Electives (0-5 courses)

Independent Study (3 courses) — see below

Learning in the Major (24 courses, including Independent Study)

A. BACHELOR OF MUSIC (PERFORMANCE MAJOR)

1. **Applied Music** (6-8 course credits, including Independent Study)
   This requirement includes a half recital of 25-30 minutes of music in the junior year (MUSC 40100) and a full recital of 45-60 minutes of music in the senior year (MUSC 45100-45200), each to be performed after a successful jury examination covering preparation and competence. These recitals constitute I.S. for the performance major. In the junior year, performance majors must enroll in one semester of one-hour lessons (200-level) and one semester of MUSC 40100.

2. **Music Theory** (8 courses)
   MUSC 10100 (Theory I), 10200 (Theory II), 20100 (Theory III), 20200 (Theory IV), 30100 (Theory of Music Since 1900), 30200 (Form and Analysis), 30300 (Basic Conducting), and 30400 (Counterpoint)

3. **Music History** (4 courses)
   MUSC 21200 (History I) and 21300 (History II), plus one period course (typically 19900 or 31100) and one additional course in Music History and Literature (21400-21900 or AFST 21200)
4. **Group Music** (1.25 courses)
Ten semesters (.125 course credit per semester per group) of participation in the following: MUSC 15000-15700 (Small Ensemble), 16000 (Wooster Singers), 16100 (Wooster Chorus), 16200 (Wooster Symphony Orchestra), 16300 (Scot Band), 16400 (Wooster Jazz Ensemble), or 16500 (Gospel Choir), with at least two semesters of participation in Wooster Singers or Wooster Chorus and at least four semesters of participation—in the major instrument or voice—in the most appropriate of the following major ensembles: Band, Orchestra, Chorus, or Wooster Singers.

5. **Pedagogy** (.5 course)
MUSC 37100 (Instrumental Pedagogy) for instrumental majors or MUSC 37000 (Vocal Pedagogy) for voice majors (.5 course credit)

6. **Music Technology** (.5 course)
MUSC 28000 (Introduction to Music Technology)

7. **Music Electives** (1.75-3.75 courses)
To be chosen by the student and the adviser; may include additional I.S. Keyboard skills must be sufficient to satisfy the Piano Proficiency requirement. Please note: Music Theory 10100 and 10200 require concurrent enrollment in a quarter-credit Class Piano course (MUSC 18100/18200) unless the student places out of this requirement; therefore, for many students, one half-credit of “Music Electives” will be in Class Piano.

B. **BACHELOR OF MUSIC (COMPOSITION MAJOR)**

1. **Music Theory** (9 courses)
MUSC 10100 (Theory I), 10200 (Theory II), 20100 (Theory III), 20200 (Theory IV), 30100 (Theory of Music Since 1900), 30200 (Form and Analysis), 30300 (Basic Conducting), 30400 (Counterpoint), and 30500 (Orchestration)

2. **Composition** (1 course credit)
1 credit from among MUSC 20800/30800 (Acoustic Composition) and 20900/30900 (Electronic Composition)

3. **Independent Study** (3 courses)
MUSC 40100 (Junior I.S.) and 45100-45200 (Senior I.S.); for a student concentrating in Composition, the Independent Study will be a continuation of the composition study begun in 20800/20900/30800/30900; for a student concentrating in Music Theory, the Independent Study will be a written research project.

4. **Music History** (5 courses)
MUSC 21200 (History I), 21300 (History II), and 31100 (Seminar in Music Literature); one period course (typically 19900 or another 31100); and one additional course in Music History and Literature (21400-21900 or AFST 21200)

5. **Applied Music** (2 courses)
Two total course credits on the same instrument (MUSC 12000-14000, 22000-24000).

6. **Group Music** (1.25 courses)
Ten semesters (.125 course credit per semester per group) of participation in the following: MUSC 15000-15700 (Small Ensemble), 16000 (Wooster Singers), 16100 (Wooster Chorus), 16200 (Wooster Symphony Orchestra), 16300 (Scot Band), 16400 (Wooster Jazz Ensemble), or 16500 (Gospel Choir), with at least two semesters of participation in Wooster Singers or Wooster Chorus and at least four semesters of participation—in the major instrument or voice—in the most appropriate of the following major ensembles: Band, Orchestra, Chorus, or Wooster Singers.

7. **Music Technology** (.5 course)
MUSC 28000 (Introduction to Music Technology)

8. **Music Electives** (2.25 course)
To be chosen by the student and the adviser; may include additional I.S. Keyboard skills must be sufficient to satisfy the Piano Proficiency requirement. Please note: Music Theory 10100 and 10200 require concurrent enrollment in a quarter-credit Class Piano course (MUSC 18100/18200) unless the student places out of this requirement; therefore, for many students, one half-credit of “Music Electives” will be in Class Piano.
Because of the heavy requirements for these degrees, it is likely that the student will need to carry overloads or extend the time required to complete the degree program.

**Note:** Completion of the degree may require more than eight semesters of full-time academic work.

36.00 to 38.25 courses are required for graduation, subject to current restrictions on residency, fractional credit, transfer credit, and course load. *Except where noted, individual courses may be counted toward multiple requirements.* Students will complete 13.5 to 15.75 courses outside music.

**First-Year Seminar in Critical Inquiry (1 course)**
Students will complete the *First-Year Seminar in Critical Inquiry* in their first semester.

**Writing**
In coordination with the First-Year Seminar Program and the Program in Writing:
- **Writing Proficiency** (0-1 courses)
  Students will demonstrate *basic writing proficiency* in their first year, through placement examination or completion of the *College Writing* course.
- **Writing Intensive Course** (1 course)
  Students will complete a *course designated as Writing Intensive (W)* in any semester between the completion of the First-Year Seminar and the beginning of senior year.

**Studies in Cultural Difference (1 course)**
Students will complete a course (C) that examines either a culture outside the United States or the culture of an American minority group (*e.g.*, African American, Asian American, Hispanic or Latino American, Native American). Courses may be taught in English or in a foreign language.

**Religious Perspectives** (1 course)
Students will complete a course (R) from any department or program that examines the religious dimension of humankind in relation to issues of cultural, social, historical, or ethical significance.

**Note:** A student may not use the same course in fulfillment of both the Studies in Cultural Difference requirement and the Religious Perspectives requirement.

**Quantitative Reasoning** (1 course)
Students will demonstrate *basic quantitative proficiency* through completion of a course (Q) in the Mathematical or Natural Sciences that involves a substantial element of quantitative reasoning.

**Mathematical and Natural Sciences** (1-1.25 courses)
Students will complete one to one and one-quarter courses in the Mathematical or Natural Sciences (MNS). *A student may not use this course in fulfillment of the Quantitative Reasoning requirement.*

**History and Social Sciences** (1 course)
Students will complete one course in History or the Social Sciences (HSS). *A student may not use this course in fulfillment of the Studies in Cultural Difference requirement or the Religious Perspectives requirement.*

**Psychology** (1 course)
Students will complete PSYC 11000. *This course may not count toward the History and Social Sciences requirement.*

**Education** (2.75 courses)
Students will complete EDUC 10000, 12000, and 30000.

**Non-Music Electives** (1 course)

**Student Teaching** (3 courses)
The student teaching sequence satisfies the College requirement of three courses of Independent Study. Students will complete EDUC 49600-49800. All degree requirements except MUSC 39500 (Special Topics in Music Education) and the final semester of recital attendance must be completed prior to the semester in which the student registers for student teaching.
Concurrent registration for MUSC 39500 and student teaching is expected; however, when student teaching is completed in the fall semester, MUSC 39500 must be completed prior to that semester. The recital attendance requirement continues through the student teaching semester.

**Learning in the Major** (22.25-22.75 courses)

1. **Music Theory** (7.5 courses)
   - MUSC 10100 (Theory I), 10200 (Theory II), 20100 (Theory III), 20200 (Theory IV), 30100 (Theory of Music Since 1900), 30300 (Basic Conducting), 30500 (Orchestration), and 30600 (Choral Conducting)

2. **Music History/Literature** (3 courses)
   - MUSC 21200 (History I), 21300 (History II), and one additional course in Music History and Literature (21400-21900 or AFST 21200)

3. **Performance** (7.75 courses)
   a. **Group Music** (1.25 courses)
      - Ten semesters (.125 course credit per semester per group) of participation in group music, including at least two semesters of participation in Wooster Singers, and at least four semesters of participation—in the major instrument or voice—in the most appropriate of the following major ensembles: Band, Orchestra, Chorus, or Wooster Singers.
   b. **Class Instruments and Voice** (2.5 courses)
      - MUSC 17000 (Class Voice), 17100 (Brass I), 17200 (Brass II), 17300 (Strings I), 17400 (Strings II), 17500 (Woodwinds I), 17600 (Woodwinds II), 17700 (Percussion), and 37200 (Functional Piano)
   c. **The remainder** (4 course credits)
      - is to be taken in performance areas (MUSC 12000-14000, 22000-24000) depending upon the pre-college preparation of the student. Keyboard skills must be sufficient to satisfy the Piano Proficiency requirements. Each student is required to give a half recital of 25-30 minutes of music in either the junior or senior year (prior to the semester in which student teaching is scheduled). The recital is to be performed after a successful jury examination covering preparation and competence.

4. **Music Technology** (.5 course)
   - MUSC 28000 (Introduction to Music Technology)

5. **Music Education** (3.5 courses)
   - MUSC 29000 (Foundations of Music Education), 34200 (Methods and Materials for Teaching Pre-K and Elementary General Music), 34300 (Methods and Materials for Teaching Secondary Choral and General Music), 34400 (Methods and Materials for Teaching Instrumental Music), 37000 (Vocal Pedagogy), and 39500 (Special Topics in Music Education)

6. **Class Piano** (.5 course credit)
   - Please note: Music Theory 10100 and 10200 require concurrent enrollment in a quarter-credit Class Piano course (MUSC 18100/18200) unless the student places out of this requirement; therefore, Music Education majors who test out of Class Piano will not have this 0.50 course credit required.
BACHELOR OF MUSIC THERAPY

32.00 courses are required for graduation, subject to current restrictions on residency, fractional credit, transfer credit, and course load. Except where noted, individual courses may be counted toward multiple requirements. Students will complete 9.00 courses outside music.

First-Year Seminar in Critical Inquiry (1 course)
Students will complete the First-Year Seminar in Critical Inquiry in their first semester.

Writing
In coordination with the First-Year Seminar Program and the Program in Writing:

- **Writing Proficiency** (0-1 courses)
  Students will demonstrate **basic writing proficiency** in their first year, through placement examination or completion of the College Writing course.

- **Writing Intensive Course** (1 course)
  Students will complete a **course designated as Writing Intensive (W)** in any semester between the completion of the First-Year Seminar and the beginning of senior year. **Please note:** It is expected that this College-wide requirement will be met by a Music course in the case of Music Therapy majors; therefore the 1.00 credit is not counted here towards the total of non-music courses.

Studies in Cultural Difference (1 course)
Students will complete a course (C) that examines either a culture outside the United States or the culture of an American minority group (e.g., African American, Asian American, Hispanic or Latino American, Native American). Courses may be taught in English or in a foreign language. **Please note:** This requirement may often be met by one of the other Music Therapy major requirements. In this case, a non-music elective course may be required to bring the total non-music course credits to 9.00.

Religious Perspectives (1 course)
Students will complete a course (R) from any department or program that examines the religious dimension of humankind in relation to issues of cultural, social, historical, or ethical significance.

**Note:** A student may not use the same course in fulfillment of both the Studies in Cultural Difference requirement and the Religious Perspectives requirement.

Psychology (3 courses)
Students will complete PSYC 10000, 21200, and 25000. Please note: the PSYC-25000 requirement will also fulfill the College-wide requirement for a course in Quantitative Reasoning (Q).

Natural Sciences (1 course)
Students will complete a course dealing with human anatomy.

Sociology (1 course)
Students will complete SOCI 10000.

Psychology (1 course)
Students will complete PSYC 11000. [This course may not count toward the History and Social Sciences requirement.]

Education (1 course)
Students will complete EDUC 20000.

Learning in the Major (23.00 courses)

1. **Music Theory** (7 courses)
   MUSC 10100 (Theory I), 10200 (Theory II), 20100 (Theory III), 20200 (Theory IV), 30100 (Theory of Music Since 1900), 30300 (Basic Conducting), and 30500 (Orchestration)

2. **Music History/Literature** (3 courses)
   MUSC 21200 (History I), 21300 (History II), and one additional course in Music History and Literature (21400-21900 or AFST 21200)
3. **Music Therapy** (6 courses)
   MUSC 19000 (Introduction to Music Therapy) and 19100 (Recreational Music—Programming and Leadership), each for .5 course credit; 29100 (Music Therapy in Psychiatry and Rehabilitation); 29200 (Music Therapy with the Developmentally Disabled); 29300 (Practicum I in Music Therapy), 29400 (Practicum II in Music Therapy), and 29500 (Advanced Practicum in Music Therapy), each for .25 course credit; 39200 (Psychology of Music) and 39300 (Research Seminar in Music Therapy), each for .5 course credit; and 39400 (Program Development and Administration in Music Therapy) and 41000 (Internship, .25 course credit), a six-month, full-time clinical experience at a facility approved by the American Music Therapy Association.

4. **Music Technology** (.5 course)
   MUSC 28000 (Introduction to Music Technology)

5. **Performance** (6 course)
   a. **Group Music** (0.75 course credit)
      Six semesters (.125 course credit per semester per group) of participation in group music, including two semesters of participation in Wooster Singers, and four semesters of participation—in the major instrument or voice—in the most appropriate of the following major ensembles: Band, Orchestra, Chorus, or Wooster Singers.
   b. **Class Instruments and Voice** (1.75 courses)
      MUSC 17000 (Class Voice), 17700 (Percussion), 17800 (Functional Guitar), 37000 (Vocal Pedagogy), and 37200 (Functional Piano)
   c. **Applied Music** (3.5 courses)
      The remainder is to be taken in performance areas (MUSC 12000-14000, 22000-24000) depending upon the pre-college preparation of the student. Keyboard skills must be sufficient to satisfy the Piano Proficiency requirement. Each student is required to give a half recital of 25-30 minutes of music in either the junior or senior year. The recital is to be performed after a successful jury examination covering preparation and competence.

6. **Music Electives** (.5 course credit)
   *Please note:* Music Theory 10100 and 10200 require concurrent enrollment in a quarter-credit Class Piano course (MUSC 18100/18200) unless the student places out of this requirement; therefore, Music Therapy majors who test out of Class Piano will not have this 0.50 course credit required.
FACULTY
As of July 1, 2017

In the groups below, the names following that of the President are arranged alphabetically, with the date of first appointment. A second or third date indicates a reappointment. Graduate training is indicated by the names of the institutions where such training was received and the dates.


EMERITUS


ACTIVE


Judith C. Amburgey-Peters, Associate Professor of Chemistry. 1996. B.S. Georgetown College 1988; Ph.D. North Carolina, Chapel Hill 1993.


Aaron Baker, Visiting Assistant Professor of Chemistry. 2016. B.S. Ohio Northern 2011; PhD. Michigan State 2016.


Brian Carlson, Visiting Assistant Professor of Biology. 2015. B.S. Xavier 2010; Ph.D. University of Cincinnati 2015.


Amber L. Garcia, Associate Professor of Psychology. 2006. B.A. St. Mary’s, California 1996; M.A. Claremont 2000; Ph.D. Purdue 2005.


Jennifer L. Ison, Assistant Professor of Biology. 2015. B.A. St. Olaf 2003; Ph.D. Illinois 2010.


Jennifer L. Ison, Assistant Professor of Biology. 2015. B.A. St. Olaf 2003; Ph.D. Illinois 2010.


Carlo Moreno, Perry-Williams Postdoctoral Fellow in Environmental Studies. 2017. B.S. San Jose State 2002; M.S. Maryland 2006; Ph.D. California 2013.


Margaret Wee-Siang Ng, Assistant Professor of East Asian Studies. 2013. B.A. Trent University 1998; M.A., Ph.D. McGill University 1999, 2013.


Helis Sikk, Gillespie Visiting Professor of Women’s, Gender, and Sexuality Studies. 2017. B.A. Tartu (Estonia) 2008; M.A. Wyoming 2010; Ph.D. William and Mary 2016.


Jillian O’Rourke Stuart, Visiting Assistant Professor of Psychology. 2017. B.S. Mary Washington 2009; Ph.D. Iowa 2016.


Claudia Thompson, Associate Professor of Psychology. 1982. B.A. Delaware 1975; Ph.D. Brown 1981.


Thomas F. Tierney, Associate Professor of Sociology. 1999. B.A. Moravian 1979; Ph.D. Massachusetts 1990.


Bas van Doorn, Associate Professor of Political Science. 2007. B.S. Michigan 1992; M.A. Amsterdam (The Netherlands) 2000; Ph.D. Minnesota 2008.


ADJUNCT TEACHING STAFF


