

ASC Major Program Goals and Objectives

In Major Programs of study, students will take coursework concentrated in one or more of the disciplines within the Colleges of the Arts and Sciences. Learning outcomes to be achieved in each distinct program of study are described below.

Actuarial Sciences

- To supply a strong general background in mathematics, statistics, and relevant concepts from the insurance industry
- To prepare students to take some of the national actuarial examinations administered by the Society of Actuaries and the Casualty Actuarial Society.

African American & African Studies

- AAAS majors will demonstrate an in-depth knowledge and mastery of substantive information relevant to one area of concentration (African American, African or Diaspora) and an understanding of the interdependent black world.
- Students will demonstrate college-level competency in conceptualization and critical thinking as well as interpretative, analytic, oral and written skills.
- Majors will understand and apply various research methods.

Ancient History and Classics

- Student will exhibit a basic knowledge of several of the many aspects of the interdisciplinary field of ancient Greek and Roman Civilization and culture, among which aspects are history, society, language, literature, philosophy, science, technology, art, architecture, and religion.
- Students will demonstrate mastery of an adequate body of knowledge about the subject matter to enable analysis and criticism of it.
- Students will understand, analyze and interpret relevant the texts and artifacts produced by the culture(s); demonstrate an understanding of contemporary issues of interpretation of the subject matter and will be able to present and defend their interpretation orally and in writing.

Anthropology and Anthropological Sciences (two majors with common goals)

- To evaluate general student preparation and experiences acquired from the department.
 - Evaluate the benefits of anthropology courses to the student's broader academic career.
 - Evaluate the extent to which anthropology has enhanced the student's research skills, enhanced the student's writing skills and increased the student's ability to engage in logical and critical thinking.

- Evaluate the student's interaction with faculty, staff, advisor, and GTAs.
- Evaluate the overall quality of the student's undergraduate experience as an Anthropology or Anthropological Sciences major at Ohio State.
- Evaluate placement success of majors at time of graduation.
- To evaluate acquisition of specific anthropological knowledge critical to success in the discipline.

Arabic

- Arabic majors will acquire Arabic language skills and linguistic competency.
- Students will demonstrate familiarity with Arabic literary and cultural traditions and their relationships to those of other peoples in the Near East.
- Students will demonstrate critical reading, thinking and communication skills as they relate to the field of Arabic Studies.

Art, BA and BFA

- To acquire the ability to create original objects of art.
- To clearly articulate the nature of art and art making.
- To critically observe a broad range of art including from different cultures and areas.
- To develop skills that can be used to describe, analyze, and evaluate theoretical and practical issues in art.
- To demonstrate competency in composition and design.
- To demonstrate competency in a variety of media and techniques.
- To demonstrate well-conceived, thoroughly executed, and highly crafted work in a variety of materials appropriate to area of focus which exhibit a high level of sophistication and attention to detail.
- To demonstrate safe use of materials and methods.
- To articulate verbally and in writing ideas, reflective of the student's own production and concepts related to a variety of contemporary and traditional idioms in the field and which reflect creative thinking and the ability to synthesize and make connections with the larger world.
 - BFA includes above goals and the expected outcome that students will learn how to create a solo exhibition complemented by artistic statement and contextual information.

Art Education, BAE

- To construct a content foundation in comprehensive arts education, standards-based art education, visual culture, critical pedagogy, and teaching for understanding.
 - The candidate will research, investigate, and work with historical and contemporary

developments, theories, issues, and philosophical perspectives within the visual arts, art education, and education.

- The candidate will balance and integrate content with art criticism, studio production, aesthetics, the study of historical and cultural contexts, visual culture, and the investigation of intellectual processes.

- The candidate will explain the basic principles and concepts of the content being studied and apply it in authentic teaching and/or learning situations.

- Examine cognitive and cultural approaches to teaching and learning to develop pedagogical strategies that are sensitive to the learning needs of all learners and a variety of diverse teaching and educational contexts.

- The candidate will recognize learning contexts as complex organizational systems requiring management, planning, assessment, and resources that are responsive to the particular as well as the broad needs of those involved in them.

- The candidate will study, develop, and deliver curriculum designed to accommodate differences in student characteristics, abilities, cultural backgrounds, and learning styles.

- The candidate will develop and write instructional plans containing content that is meaningful and relevant to the lives of all learners and encourages active inquiry.

- The candidate will create conducive learning environments and deliver instruction in such a way so that all students can learn while showing a commitment to diversity, equity, and efficacy.

- Attend to the opportunities of emerging technologies to integrate knowledge, promote information and cultural literacy.

- The candidate will use emerging technologies to further the learning of all students as well as the candidate's learning and understandings, instruction, planning, research, professional development, community service, and to establish relationships with a broader education community.

- The candidate uses technology to facilitate the learning of all students through the effective integration of technology, information literacy, and analysis.

- The candidate incorporates emerging technologies with pedagogy to integrate content, strengthen connections and problem solving for all learners.

- Recognize the professional role and responsibilities of an art educator as it relates to efficacy, professional development, research, reflection, assessment, and an enduring commitment to education.

- The candidate will use research and data to make decisions about the effectiveness of his/her pedagogical practice in order to assure that all students achieve.

- The candidate will engage in the application of theories related to curriculum, instruction, and learning in authentic and diverse education contexts and examine and refine their

actions through the use of reflective practices.

- The candidate will manage learning environments with professional ethics and a sense of community, respect, and humanity.
- The candidate will demonstrate knowledge of the policies of schools while responding to the cultural, economic, ethical, legal, and political issues surrounding diversity and equity.

Astronomy

- Development of modern astronomy, including the contributions of Kepler, Galileo, and Newton; Newtonian physics should be used to explain orbital motion, tides, and precession.
- Origin and nature of the solar system, including the reasons why the terrestrial and jovian planets differ; the student should be able to explain current ideas for unusual characteristics of each planet, the more notable satellites, ring systems, asteroids, and comets.
- The nature of light and spectral lines, including various ways of how spectral lines are used in astronomy; blackbody radiation
- Telescopes and detectors, including types of telescopes, how charge-coupled devices work and how one uses them for observing, and how one calculates signal-to-noise ratios, extinction coefficients, and spatial and spectral resolving power
- What physical laws govern the structure of stars, including how these lead to explanations of stellar evolution; the student should be able to explain why some stars exhibit remarkable behavior, including red giant, helium flash, planetary nebula, white dwarf, and supernova phases.
- How one measures observational quantities of stars (mass, radius, temperature, rotation, composition, and surface gravity)
- The structure of the Galaxy, including how the structure is measured and how it likely originated
- Characteristics of other galaxies, along with recent theories as to why galaxies came to exhibit such variety
- Cosmology, including the Big Bang, inflation, and nucleosynthesis; the student should be able to explain how one can measure the standard cosmological parameters.

Biology

Students will achieve:

- Understanding of the chemical, mathematical, and physical concepts that are relevant to the biological sciences.
- Basic knowledge of biochemistry, including chemistry, structure and function of common biological molecules, metabolic pathways, and enzyme structure and function.
- Basic knowledge about Mendelian, molecular, and population genetics, molecular biology, and the current status of genome projects.
- Basic knowledge about important aspects of cellular and developmental biology.

- Basic understanding of fundamental differences between bacterial, fungal, plant and animal systems.
- Basic knowledge about ecology, evolution and the diversity of living organisms.

Biochemistry

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- Understanding of the chemical, mathematical, and physical concepts that are relevant to the biological sciences.
- Basic knowledge of biochemistry, including chemistry, structure and function of common biological molecules, metabolic pathways, and enzyme structure and function.
- Basic knowledge about Mendelian, molecular, and population genetics, molecular biology, and the current status of genome projects.

Chemistry

- Courses should cover the essential content of modern chemistry.
 - Organic, analytical, physical and inorganic course sequences will be up to date with current principles and pedagogical practice.
 - Lab courses in the above areas should serve to reinforce the principles.
 - All courses should emphasize scientifically ethical practices.
 - A full course in biochemistry will be highly recommended and normally taken by both B.A. and B.S. majors.
 - Courses in the major program should deal with chemical applications in other disciplines such as biology, physics and engineering.
 - Courses in the major program will demonstrate connections of the subject to frontier areas that are research active.
 - Elective courses should be offered in interdisciplinary areas that currently show high potential for rapid development such as nanoscience and environmental science.
- Students should develop the required skills of the discipline.
 - Students should learn to solve chemistry problems, working both individually and in groups.
 - Students should develop effective skills in oral and written communication of scientific knowledge.
 - Students should learn to plan experimental procedures, carry out basic chemical procedures, use laboratory equipment, analyze data and prepare laboratory reports.
 - Students should learn to follow safe practices in the lab.
 - Students should learn how to retrieve information from the chemical literature, and become proficient in online database searching.

- Students should learn how to use modern computer software for graphing, manipulation of symbolic mathematical expressions, and quantum chemical calculations.
- Students should be prepared to undertake a broad range of activities that utilize their training in chemistry.
 - A large fraction of students will engage in research with faculty members, either by taking research courses or by being employed as laboratory assistants.
 - Honors chemistry students should normally write undergraduate theses based on their research with faculty members.
 - Students should be successful in gaining admission to prestigious graduate or professional programs.
 - Graduates should embark on successful chemistry-related careers.

Chinese

Through training in Chinese language, linguistics, literature and culture, Chinese majors will:

- Demonstrate consideration of multiple critical approaches to an issue.
- Demonstrate sensitivity to cultural diversity based on what one has studied.
- Demonstrate knowledge of cultural traditions and behaviors sufficient to situate the material studied in its larger cultural contexts.
- Demonstrate a critical literacy in media.
- Demonstrate ability to interpret materials and behaviors presented orally and in writing.
- Demonstrate the ability to express themselves clearly both orally and in writing.

Classics

Classics majors select an area of concentration from one of Classical Humanities (Civilization Track), Classical Greek, Latin, or Classical Greek & Latin (Language Track).

- Students focusing on Civilization will exhibit a basic knowledge of several of the many aspects of ancient Greek and Roman Civilization and culture.
- Students of Civilization will demonstrate the capacity to think analytically and critically about the components of the ancient cultures, their interactions with other ancient cultures (e.g. in the Asia and Africa) and their relevance to life and culture of the contemporary world.
- Students focusing on the Classical Languages will exhibit knowledge of the basic grammar of the language(s) in order to translate complex sentences from Latin or Classical Greek into English.
- Students will demonstrate an intermediate level of proficiency in reading and translating texts in the language(s), and be able to interpret literary or historical texts.

- Students will apply contemporary strategies for analyzing and/or criticizing literary or historical texts to present a plausible interpretation, analysis, or criticism with appropriate argumentation or defense.

Communication

- To offer students knowledge of the principles of communication within a social science framework and to foster an understanding of the role of communication in society.
 - Students should have an understanding of the principles of communication.
 - Students should be exposed to systematic trends in the development of core concepts related to communication.
 - Students should be able to apply critical thinking and analytical skills to systematically evaluate communication problems and processes.
- To train students in the practice of communication.
 - Students graduating from the program should demonstrate basic competency in oral communication.
 - Students graduating from the program should demonstrate competency in written communication.
- To prepare students for jobs in the field of communication.
 - Encourage each student in our program to complete an internship before graduation.
 - To facilitate knowledge transfer from the laboratory to the community, students will be encouraged to participate in independent research projects with the faculty.

Comparative Studies

- Comparative Studies majors will demonstrate the capacity to think and write critically.
- Students will demonstrate skills at reading and interpreting a diverse range of texts, visual artifacts, and oral traditions.
- Students will exhibit an appreciation of the effects of cultural and historical differences.
- Majors will demonstrate an understanding of the possibilities and limits of different disciplinary and interdisciplinary approaches to specific practices or objects.
- Students will be able to identify the assumptions made in a wide range of cultural analyses (academic and popular), to think reflexively about their own scholarly and non-scholarly projects, and to look for the role played by culture, gender, race, class in everyday life.

Criminology

- Students obtain comprehensive knowledge of the field of Criminology.
- Students acquire a grasp of the theoretical perspectives and concepts of the discipline.
- Students are able to understand and evaluate research methods, designs, and statistical

procedures and have opportunities to conduct research.

- Students are provided with a strong foundation for seeking employment or graduate or professional training.
- Honors students are able to engage in original research, write a senior thesis, and successfully compete for national scholarships and admission to leading graduate programs

Dance, BFA

- Students should have a solid foundation in a breadth of contemporary dance techniques.
 - Upon graduation, students will exhibit an advanced degree of proficiency in the contemporary dance techniques taught in the department.
 - Students will be able to translate technical proficiency from the studio to a performance context.
- Students will be able to synthesize skills and knowledge from the department's diverse curricular areas including Laban studies, choreography, history, education, technology, performance and technique.
 - Students will apply skills and knowledge attained in one course to a new context in another course.
 - Students will exhibit intermediate/advanced proficiency in each of the curricular areas.
- Students will be able to provide well-considered, analytical feedback to their peers in regards to performance and choreography
 - Students will be able to produce thorough written analysis of his or her own work and the work of others.
 - Students will be able to produce thorough written analysis of his or her own work and the work of others.

Earth Sciences

- Preparedness in the geological sciences.
 - Students will be able to critically read and evaluate geological literature.
 - Students will be able to present geological information in a clear and logical manner both orally and written.
 - Students will be able to apply knowledge of geological data and application of these data to understand the physical, chemical, and biological processes and their evolution on Earth. Geologic data include basic knowledge (Earth materials, mineralogy, petrology of igneous, metamorphic, and sedimentary rocks, paleontological principles, structural geology, surface and subsurface mapping, and movement of Earth fluids) and access to and manipulation of more recently available geological data bases.
 - Students will be able to understand the processes and interactions of the lithosphere,

hydrosphere, biosphere, atmosphere, and cryosphere, including their impact on today's society, and their geological history.

- Students will be able to apply knowledge of introductory techniques, field methods, and numerical methods used to measure, portray, analyze, and interpret both the present and past Earth.

- Preparedness in the basics of ancillary sciences germane to the geological sciences.

- Students will be able to apply knowledge of an introduction to skills from chemistry, physics, biology, mathematics, statistics, and computing to know how these sciences are applied in the geological sciences.

- Preparedness for vital social skills for a productive professional life.

- Students will be able to work as part of a team.

- Students will be able to understand and practice scientific ethics.

- Preparedness in the geological sciences.

- Students will be able to critically read and evaluate geological literature.

- Students will be able to present geological information in a clear and logical manner both orally and written.

- Students will be able to apply knowledge of geological data and application of these data to understand the physical, chemical, and biological processes and their evolution on Earth. Geologic data include basic knowledge (Earth materials, mineralogy, petrology of igneous, metamorphic, and sedimentary rocks, paleontological principles, structural geology, surface and subsurface mapping, and movement of Earth fluids) and access to and manipulation of more recently available geological data bases.

- Students will be able to understand the processes and interactions of the lithosphere, hydrosphere, biosphere, atmosphere, and cryosphere, including their impact on today's society, and their geological history.

- Students will be able to apply knowledge of appropriate techniques, field methods, field mapping, and numerical methods to measure, portray, analyze, and interpret both the present and past Earth.

- Students will develop the necessary knowledge and skills for admission to graduate school or employment following graduation.

- Students will develop an in-depth undergraduate/beginning graduate student knowledge of one or more specialized area in the geological sciences (through the Senior Thesis)

- Students will be able to identify geological problems and to develop solutions.

- Preparedness in the basics of ancillary sciences germane to the geological sciences.

- Students will be able to apply knowledge of modern applications from chemistry, physics, biology, mathematics, statistics, and computing to the solution of geological problems.

- Preparedness for vital social skills for a productive professional life.

- Students will be able to work as part of a team.
- Students will be able to understand and practice scientific ethics.

Economics

- To evaluate the adequacy of the cumulative acquisition of key theoretical concepts and empirical tools by students moving along in upper division courses through learning outcomes assessment.

- Students will improve knowledge of mathematics and statistical analysis, economic processes, and public policy issues.

- Students will improve use of logical thinking skills and use of analytical tools.

- Students will perform at or above means and medians of TUCE III (nationally normed test of learning outcomes).

- Students will perform well in upper division courses following successful completion of prerequisite principles courses.

- To evaluate the adequacy of the cumulative acquisition of key theoretical concepts and empirical tools by students moving along in upper division courses through undergraduate curriculum assessment.

- Lower-division courses will prepare students for upper-division courses.

- Course instruction will be of high quality.

- Advising will be of high quality.

- Students will have access to research and internship opportunities.

English

- English majors will exhibit a broad knowledge, understanding, and appreciation of literatures written in English, especially the British and American traditions, including the main literary historical periods, major authors, and the history of the English language.

- Students will demonstrate high levels of proficiency in oral and written communication, the ability to write persuasively and elegantly using the skills of argumentation, rhetoric, style, and bibliographic citation.

- Majors will demonstrate skill in using the critical tools and terminologies needed to analyze and assess a range of texts, the ability to identify the formal properties of texts as well as major literary forms and genres, and an informed awareness of different critical theories, methodologies, and approaches to studying texts.

- English majors will demonstrate understanding of the historical and cultural contexts in which texts are produced, disseminated, and received, and skill at relating texts to these contexts.

Entomology

Students will achieve:

- Understanding of the chemical, mathematical, and physical concepts that are relevant to the biological sciences.
- Basic knowledge of biochemistry, including chemistry, structure and function of common biological molecules, metabolic pathways, and enzyme structure and function.
- Basic knowledge about Mendelian, molecular, and population genetics, molecular biology, and the current status of genome projects.
- Basic knowledge about important aspects of cellular and developmental biology.
- Basic understanding of fundamental differences between bacterial, fungal, plant and animal systems.
- Basic knowledge about ecology, evolution and the diversity of living organisms.

Evolution and Ecology

Students will achieve:

- Understanding of the chemical, mathematical, and physical concepts that are relevant to the biological sciences.
- Basic knowledge about Mendelian, molecular, and population genetics, molecular biology, and the current status of genome projects.

Film Studies

- To provide students the tools for rigorous formal and historical analysis of film
- To train students to think critically and in interdisciplinary ways about film as an aesthetic form and cinema as a social institution;
- To provide students in-depth knowledge in one concentration area developed by individual students in consultation with their mentors in the program and others outside it.
 - Students will be able to pursue interdisciplinary inquiries about cinema and pose questions that cut across disciplinary fields;
 - Students will be able to differentiate different types of cinematic techniques and works;
 - Students will be able to evaluate those differentiated elements – and reactions to them – on their own terms as well as in relation to received tradition;
 - Students will be able to synthesize from their specific analyses and evaluations general conclusions that go beyond individual examples;
 - Students will significantly improve their self-expression, including but not limited to the oral and written development of an argument, the organization of data and evidence in support of that argument, and the persuasive presentation of that evidence.

French

- French majors will demonstrate a broad general knowledge and understanding of Francophone cultures, including their history, literature, society, music and fine arts, an appreciation of the concept of culture and global awareness, and the ability to interact in multilingual communities.
- Students will be able to understand the main ideas as well as many of the cultural references and subtleties of authentic French and Italian oral (radio, TV, film) and written (literature, newspapers, routine and more technical business or other) discourse.
- Students will be able to participate in fairly sophisticated discussions of ideas in the foreign language on a number of topics and will be able to defend positions and disagree with peers using cogent arguments; they will be able to make relatively sophisticated oral presentations.
- Students will be able to understand and analyze relatively complex ideas presented in fulllength, original texts in a variety of genres (such as literary prose, poetry, theater, history narratives, essays, and advertisements).
- Students will be able to use the contextual knowledge gained from exposure to the major historical, socio-cultural, and literary periods of Francophone cultural history to discuss and write on a number of topics pertaining to the foreign culture and their own.

Geography

- Students will acquire competence in the fundamental concepts of the field, taking into account that the substantive expression of these concepts will vary across major tracks:
 - Students can understand geographical concepts of area differentiation and inter relations over space as they apply to the substantive content of their particular major track. These include ideas of movement, exclusion, inclusion, scale, geographic pattern and spatial organization.
 - Students understand more concrete expressions of these ideas. For students in the Atmospheric Science track these would include ideas of air mass movement, the movement of ocean currents, and of climatic regions. For students in the other tracks these would include ideas of migration and diffusion, segregation, localization, transport network, and agglomeration.
 - Students understand the significance of knowledge of social and physical processes for understanding geographies in the descriptive sense and the dangers of reading process off from those descriptive relationships.
- Students will achieve an understanding of the methods used in geography. Again, this has to take into account the fact that the substantive expression of these methods will vary across the major tracks:
 - Students are able to read and interpret the maps typically used in academic geography and the processes of abstracting information from maps, and to draw their own sketch maps in order to demonstrate points of descriptive or analytic significance.
 - Students understand the basic concepts of geographical information systems.

- Students understand the ways in which elementary statistics can be used in the analysis of geographic patterns.

German

Through study of language, linguistics, literature and culture, German majors:

- Will be able to communicate in German, demonstrating intermediate high to advanced-level language proficiency (ACTFL Scale) or proficiency Levels B1-C1 on the Common European Framework of Reference for Languages.
- Will demonstrate knowledge and understanding of the German-speaking world through study of German and European history, and culture past and present.
- Will be able to forge connections with other disciplines and be able to acquire information.
- Will have the capacity to participate in multilingual communities at home and around the world.
- Will demonstrate the ability to select, read (view) critically and interpret literary, filmic, and non-fiction texts produced for native speakers of German, and mastery of subject-matter expertise (linguistic and content) in one or more of the following areas: Literary or Culture Studies, Linguistics, Film, or Business German.
- Will demonstrate the ability to conduct research and communicate the results to others.
- Will demonstrate the ability to evaluate critically and use new media and technologies for lifelong learning.

Hebrew

- Students will demonstrate command of a sound working knowledge of Hebrew grammar.
- Students will demonstrate sufficient vocabulary so that they are able to read ordinary Hebrew expository prose with recourse to a dictionary.
- Students will exercise basic compositional skills so that they can write simple essays in Hebrew and demonstrate the capacity to take in content and process studies in Biblical, Rabbinic and Modern Hebrew.

History

- History majors will demonstrate an understanding of the factors that shape human activity as it changes over time in varying geographical and cultural contexts, exhibiting an international perspective on history
- Students will demonstrate the ability to think critically through historical analysis of primary and secondary sources, and to analyze and evaluate diverse interpretations of historical events.
- Students will demonstrate effectiveness in communicating historical arguments and documenting evidence to support those arguments.

History of Art

- To introduce G.E.C. students, potential majors, and beginning declared majors to the basic ideas and major monuments of the world's art.
- To help students develop a beginning understanding of art historical methodology, including the ideas, techniques, historiography, and content of works of art of various periods and regions.
- To develop within the student an understanding of the details of art-historical methodology and approach as related to the content of the specific areas.
- To help students develop a full understanding of the major artistic movements, artists, and other personalities and works of art within the specific areas.

Italian

- Italian majors will demonstrate a broad general knowledge and understanding of Italian culture, including its history, literature, society, music and fine arts, an appreciation of the concept of culture and global awareness, and the ability to interact in multilingual communities.
- Students will be able to understand the main ideas as well as many of the cultural references and subtleties of authentic Italian oral (radio, TV, film) and written (literature, newspapers, routine and more technical business or other) discourse.
- Students will be able to participate in fairly sophisticated discussions of ideas in the foreign language on a number of topics and will be able to defend positions and disagree with peers using cogent arguments; they will be able to make relatively sophisticated oral presentations.
- Students will be able to understand and analyze relatively complex ideas presented in fulllength, original texts in a variety of genres (such as literary prose, poetry, theater, history narratives, essays, and advertisements).
- Students will be able to use the contextual knowledge gained from exposure to the major historical, socio-cultural, and literary periods of Italian cultural history to discuss and write on a number of topics pertaining to the foreign culture and their own.

Industrial, Interior and Visual Communication Design, BSD

(three majors with common goals)

- To gain a lifelong desire and ability to create new knowledge and foster problem-solving skills through creativity and the systematic application of process.
 - Students will apply a systematic approach to the design process in all studio projects.
 - Students will develop the ability to design and develop ideas for new products, spaces and/or interfaces that may not have existed before.
 - Students will be able to apply design and creative skills learned in one studio to problems encountered in the new context of a successive studio.
- To develop an understanding of the human-centered focus of design and research.

- Students will be able to conduct and complete user research studies for all studio projects.
- Students will create designed artifacts that will be evaluated by design professionals and potential users.
- To prepare for a successful career in the design profession.
 - Students will prepare a portfolio that documents their creative work over the entire undergraduate and/or graduate program.
 - Students will develop the skills of presenting themselves and their design competencies in a professional practice context.
- To develop an understanding of and familiarity with the tools and methods of the design trade.
 - Students will demonstrate proficiency in model-making techniques using various materials.
 - Students will demonstrate proficiency in the use of relevant design technology in the problem-solving and creative process.
 - Students will exhibit proficiency in both 2D and 3D design methodologies.
- To hone the skills that are central to communicating design ideas and solutions.
 - Students will demonstrate proficiency in drawing and sketching.
 - Students will present and defend their design projects in public critiques.
 - Students will be able to create documentation that describes the processes associated with a capstone thesis project.
 - Graduate students be able to create and defend a document that describes and documents an original research contribution.
- To develop an understanding of and appreciation for the role of the designer in environmental relationships.
 - Students will be able to synthesize knowledge and skills learned in a liberal arts environment and apply them to issues and problems in their specific area of design.
 - Students will develop a knowledge of and appreciation for the concept of sustainability.

International Studies

- Encourage students to develop their study, reading, analytical, research, presentational (oral and written), critical thinking, and cooperative learning skills within an interdisciplinary framework;
- Foster an interdisciplinary understanding of U.S. and world cultures and regions and to appreciate their place in international affairs and the study of international relations;
- Introduce students to basic concepts, analytical perspectives and methodologies used in the study of the humanistic and social scientific disciplines of language, anthropology, culture, economics, history, literature and politics;

- Promote relatively advanced foreign language skills;
- Allow students, through their study abroad, internship (domestic and international), and research opportunities to become familiar with governments, international organizations, the private sector and civil society and to prepare them for study, work, and active citizenship locally and globally;
- Prepare students for a lifetime of cultural, social, environmental, and technological change.
 - Students will be able to do research, develop an argument, and organize data and evidence, demonstrating effective oral and written communicational skills;
 - Students will be able to think critically and in interdisciplinary ways about regional and global issues that play a role in their defining their own, and their country's, place in the world;
 - Students will learn to identify regional and international issues and problems and to analyze their causes and consequences working both individually and in groups;
 - Students will learn from their own study abroad, internship, and research experiences as well as from material presented in the classroom.

Japanese

Through training in Japanese language, linguistics, literature and culture, Japanese majors will:

- Demonstrate consideration of multiple critical approaches to an issue.
- Demonstrate sensitivity to cultural diversity based on what one has studied.
- Demonstrate knowledge of cultural traditions and behaviors sufficient to situate the material studied in its larger cultural contexts.
- Demonstrate a critical literacy in media.
- Demonstrate ability to interpret materials and behaviors that are presented orally and in writing.
- Demonstrate the ability to express themselves clearly both orally and in writing.

Jewish Studies

Jewish Studies majors demonstrate core knowledge of Judaism, Jewish culture and history from ancient times to the present:

- They demonstrate sharp communications skills in exams, papers, discussions, and exhibit a working knowledge of Hebrew (and possibly Yiddish), as well as the ability to read texts in the original language.
- Students demonstrate familiarity with the canonical works of the Biblical and Rabbinic traditions and knowledge of Jewish history from ancient times through contemporary world events.
- Students demonstrate the capacity to analyze and interpret modern Jewish literature, film, politics and thought, and exhibit basic bibliographical skills in the study of Judaica.

Journalism

- To offer students knowledge of the principles of journalism within a social science framework and to foster an understanding of the role of public affair journalism in society.
 - Students should have an understanding of the core concepts and principles of the role of media in society.
 - Students training to become journalists should be able to apply critical thinking and analytical skills to systematically evaluate problems and processes.
- To train students in the practice of journalism.
 - Students graduating from the program should demonstrate basic competency in journalistic skills of reporting and editing.
 - Students graduating from the program should demonstrate basic competency in a content area outside the field of journalism.
- To prepare students for jobs in media and journalism.
 - Encourage each student in our program to complete an internship before graduation.
 - To facilitate knowledge transfer from the laboratory to the community, students will be encouraged to participate in independent research projects with the faculty.

Korean

Through training in Korean language, linguistics, literature and culture, Korean majors will:

- Demonstrate consideration of multiple critical approaches to an issue.
- Demonstrate sensitivity to cultural diversity based on what one has studied.
- Demonstrate knowledge of cultural traditions and behaviors sufficient to situate the material studied in its larger cultural contexts.
- Demonstrate a critical literacy in media.
- Demonstrate ability to interpret materials and behaviors that are presented orally and in writing.
- Demonstrate the ability to express themselves clearly both orally and in writing.

Linguistics

- Students will demonstrate familiarity with the major areas of linguistics.
- Students will demonstrate skill in critical analysis and problem solving.
- Students will demonstrate skills in oral and written expression.
- Students will express an understanding of the role of language in society.
- Students will express an understanding of how new knowledge is created through research experiences.

Mathematics

- All undergraduate majors will master the fundamental areas of mathematics: calculus,

differential equations, and linear algebra.

- Students will master the fundamental techniques of the differential and integral calculus of functions of one and several variables.
- Students will acquire basic knowledge of the use and methods of solution of ordinary and partial differential equations.
- Students will acquire basic skills with systems of linear equations and the methodology of Eigen value and eigenvector analysis.
- Students will acquire basic skills in the analysis of infinite sequences and series.
- All undergraduate majors will master the basic mathematical vocabulary of sets, functions, and relations, and the basic modes of logical inference and proof writing.
 - Students will acquire facility at reading mathematical discussions and proofs.
 - Students will develop skills at constructing their own mathematical proofs using methods such as proof by contradiction, proof by contraposition, mathematical induction, wellordering, etc.
- All traditional undergraduate majors will master the basic concepts of analysis and abstract algebra and their correlation to the more fundamental areas of high school geometry, algebra, and calculus.
 - Students will understand the structure of the real number line and the concepts of continuity, differentiability, and integrability.
 - Students will understand the fundamental number systems (integers, rationals, reals, complexes) and related systems such as finite fields and the Gaussian integers.
 - Students will understand the basic theory of polynomial functions and its abstraction to ring and field theory.
 - Students will understand the concepts of congruence and symmetry in geometry and its abstraction to the theory of groups.
- Honors undergraduate majors will delve deeper into the concepts listed in objectives 1 – 3 above, and will receive a thorough and challenging introduction to other topics such as complex analysis, differential geometry, and number theory.
 - Students will be fully prepared with the knowledge and analytical skills to pursue graduate study in mathematics or any other discipline that utilizes mathematical ideas and methods.
 - Students will fully master the methods of rigorous analysis and case division of problems.
- The faculty and staff of the Mathematics Department will provide undergraduate majors with an educational experience that provides a firm grounding in all of the basic areas of mathematical knowledge.
 - Faculty will be recognized by students as excellent educators.

- The degree program will compare favorably with that of peer institutions.
- The faculty and staff of the Mathematics Department will provide the opportunity for undergraduate majors to participate in research, problem-solving or outreach experience consistent with the students' post graduate plans.
 - Students will have the opportunity to participate in working groups exploring current research problems.
 - Students will have the opportunity to compete in challenging problem-solving competitions.

Medieval & Renaissance Studies

- Medieval and Renaissance Studies majors demonstrate a broad, interdisciplinary appreciation of the history and culture of the Medieval and Renaissance world.
- Students demonstrate skill at critical thinking through the study of diverse disciplines and languages.
- Students demonstrate skill at utilization of primary and secondary sources.
- Students demonstrate the capacity to express themselves and to exercise sharpened communication skills in exams, papers, and discussions.

Microbiology

Students will achieve:

- Understanding of the chemical, mathematical, and physical concepts that are relevant to the biological sciences.
- Basic knowledge of biochemistry, including chemistry, structure and function of common biological molecules, metabolic pathways, and enzyme structure and function.
- Basic knowledge about Mendelian, molecular, and population genetics, molecular biology, and the current status of genome projects.
- Basic understanding of fundamental differences between bacterial, fungal, plant and animal systems.

Middle Childhood Education

- Know the subject matter in their specializations beyond the introductory level or beyond the level they will teach
- Understand and be able to implement effective teaching/learning environments for their chosen areas of concentration
- Learn to enjoy investigating their subjects of interest, develop confidence in their own judgment, and communicate ideas easily and effectively with others

Modern Greek

- Modern Greek majors demonstrate language skills sufficient to engage in interpretation of literary and cultural texts and products: reading, listening, speaking and writing.
- Students exhibit an understanding of Modern Greek literary studies, applicable critical theory, cultural politics, and Greek-American diaspora.
- Students demonstrate the capacity to conduct research in an area of academic focus.

Molecular Genetics

Students will achieve:

- Understanding of the chemical, mathematical, and physical concepts that are relevant to the biological sciences.
- Basic knowledge about Mendelian, molecular, and population genetics, molecular biology, and the current status of genome projects.
- Basic knowledge about important aspects of cellular and developmental biology.

Music, BA

- Students will gain a solid foundation in musicianship through studies in the theory, history and performance of music
 - Students will develop an understanding of compositional processes through the study of a wide range of music style periods, genres, and literature.
 - Students will develop proficiency in a performing medium through applied study and ensemble participation.
- Students will develop a firm foundation in musical thought through a multidisciplinary curriculum emphasizing a strong focus on liberal arts.
 - Students will develop the ability to communicate verbally and in writing in a coherent, precise manner.
 - Students will gain experience with a range of cultural and historical perspectives.
- Students must gain experiences in general studies sufficient to prepare them for a range of career options.
 - Students will gain skills sufficient for clear and effective verbal and written communication.
 - Students will gain knowledge in mathematical principles and theories, and in the natural and social sciences.
 - Students will gain an understanding of culture and history through a variety of perspectives.

Music, BM (five majors with common goals)

Composition

Jazz Studies

Music History

Music Theory

Performance

- Students must demonstrate achievement of professional, entry-level competence in the area of specialization, including significant technical mastery, capability to produce work and solve professional problems independently, and a coherent set of artistic/intellectual goals that are evident in their work.
 - Students will engage in applied studies each quarter that will provide appropriate skills, knowledge, and experience to prepare students for graduate programs and professional careers in the field. They will represent an understanding of a wide range of historical styles and periods.
 - Students will complete courses in music theory, music history, and area-specific literature and pedagogy that will provide appropriate skills, knowledge, and experience to prepare them for professional careers in the field. These courses will represent an understanding of a wide range of historical styles and periods.
- Students must have the ability to communicate musical ideas, concepts, and requirements to professionals and lay persons related to the practice of the major field. Such communication may involve musical, oral, written, and visual media.
 - Students will complete curricular requirements that include courses designed to develop oral and written communication skills.
 - Students will gain knowledge and experience in pedagogical methodologies in their area of specialization.
- Students will gain an understanding of the nature of the music field in the professional world, particularly related to organizational structures, work ethics, technological resources, and entrepreneurial skills required for advancing their careers.
 - Students will complete a required course in music technology and will prepare numerous assignments in music theory and music history courses employing a wide range of software and web-based sources and skills covered in this course.
 - Students will build workplace skills through independent studies with applied faculty and ensemble directions.
- Students must gain experiences in general studies sufficient to prepare them for a range of career options.
 - Students will gain skills sufficient for clear and effective verbal and written communication.
 - Students will include a broad range of general studies courses in their curricula

appropriate for complementing degree requirements that address their specific music concentrations.

Music Education, BME

- In addition to the common core of musicianship and general studies required of all Bachelor of Music degree majors, the student seeking a career in school-based music education must develop competencies in professional education and relate the learning of educational principles to the technical, historical, and the stylistic performance techniques of the field.
 - Students will complete professional courses in music and general education methods, observe teaching and engage in field work on all pre-college grade levels
 - Students will successfully complete teaching experiences in elementary and secondary schools.
- The musician-teacher must gain knowledge and experiences in teaching vocal or instrumental techniques for various levels and age groups for effective classroom and ensemble rehearsal settings.
 - Students will successfully complete studies in conducting to include score reading and the integration of analysis, style, performance practices, instrumentation, and baton technique.
 - Students will gain functional performance abilities in instruments appropriate to the student's teaching specialization.
- Students will gain an understanding of child growth and development and an understanding of principles of learning as they relate to music.
 - Students will successfully complete a course in educational psychology through the College of Education
 - Students will engage in observations and practicum experiences in all levels of grade school education.
- Students will gain a solid foundation in musicianship through studies in the theory, history and performance of music
 - Students will develop an understanding of compositional processes through the study of a wide range of music style periods, genres, and literature.
 - Students will develop proficiency in a performing medium through applied study and ensemble participation.
- Students will develop a firm foundation in musical thought through a multidisciplinary curriculum emphasizing a strong focus on liberal arts.
 - Students will develop the ability to communicate verbally and in writing in a coherent, precise manner.
 - Students will gain experience with a range of cultural and historical perspectives.

- Students must gain experiences in general studies sufficient to prepare them for a range of career options.
 - Students will gain skills sufficient for clear and effective verbal and written communication.
 - Students will gain knowledge in mathematical principles and theories, and in the natural and social sciences.
 - Students will gain an understanding of culture and history through a variety of perspectives.

Philosophy

- Majors are able to easily and effectively recognize philosophical doctrines and the arguments used to support them.
- Majors are able to critically assess these doctrines and supporting arguments, and to repair or amend them where that is deemed appropriate.
- Majors are able to accurately state their own philosophical positions or opinions, and to provide constructive support for their views.

Physics

- Undergraduate majors will master the fundamental areas of physics: classical mechanics, electricity & magnetism, quantum mechanics, and thermodynamics.
 - Students will acquire knowledge of and understand both the relative strength and range of the four fundamental forces: Gravitation, Electromagnetic, Weak Nuclear and Strong Nuclear.
 - Students will acquire knowledge of the use and distinction between Force techniques and Conservation Law methods.
 - Students will acquire knowledge of the use and limitations of Classical Mechanics
 - Students will acquire knowledge of the use and application of Maxwell's Equations for Electricity and Magnetism as well as how they are related to optics and special relativity.
 - Students will acquire knowledge of and understand the use of quantum mechanics. Specifically, students will be introduced to wave-particle theory, Schrödinger's Equation, and wave functions.
 - Students will acquire knowledge of and understand the application of the zeroth, first, second and third laws of thermodynamics.
- Undergraduate majors will develop analytical and problem solving skills which will enable them to understand the theoretical frameworks fundamental to the analysis of physical systems.
 - Students will develop the ability to describe physical relationships mathematically and/or symbolically.

- Students will develop the ability to draw logical conclusions from physical data, theory, and models. This includes, but is not limited to: examining and evaluating assumptions, distinguishing relevant from irrelevant fact, recognizing contradictions, exploring implications and consequence.

- Students will develop the ability to use and manipulate mathematical techniques to generate a physically reasonable solution.

- Students will develop the ability to use and understand graphical techniques to extract physical information from a data set.

- Students will develop the ability to use computer software and/or create algorithms to simulate problems, model experiments, model theory and predict outcomes.

- Undergraduate majors will acquire a basic mastery of experimental physics

- Students will learn how to design and utilize the equipment necessary to take a measurement. Measurement is defined as an experiment designed to test a particular hypothesis.

- Students will learn how to construct and take a measurement.

- Undergraduate majors will acquire a basic mastery of data reduction and error analysis.

- Students will acquire the skills to perform basic statistical analysis on data.

- Students will acquire the skills to quantitatively analyze physical systems and understand the limitations of measurement.

- Students will acquire the skills to model physical systems.

- Undergraduate majors will be able to effectively communicate their physical understanding both professionally and colloquially (orally and in writing).

- Students will develop the ability to create graphics that clearly communicate scientific data

- Students will develop the ability to explain and defend scientific information orally.

- Students will develop the ability to construct grammatically correct and cogent arguments in a written form.

- Undergraduate majors will participate in a research (academic or industrial) and/or outreach experience consistent with his/her post graduate plans.

- Students will learn how to integrate their physics education while approaching a unique problem. The problem should include: The application of fundamental physics, an understanding of underlying theory, use of basic experimental techniques, analysis/reduction of data, and communication of results in a professional manner.

- Students will develop non-academic, professional skills appropriate for their postgraduate plans.

- Students will develop an understanding of professional physicist interactions.

- The faculty and staff of the Physics department will provide undergraduate majors with an

educational experience that incorporates current pedagogical techniques and a current understanding of developing technology.

- Faculty will be recognized by students as satisfactory to superior educators.
- Faculty will be externally recognized by faculty both within and outside of OSU as excellent teachers.
- The degree program will compare favorably with peer institutions in its use of appropriate technology within its curriculum.
- The faculty and staff of the Physics department will provide the opportunity for undergraduate majors to participate in a research (academic or industrial) and/or outreach experience consistent with the student's post graduate plans.
 - Students will have participated in a wide variety of research experiences.
 - Students will graduate with a portfolio of professionally relevant experiences.

Plant Cellular and Molecular Biology

Students will achieve:

- Understanding of the chemical, mathematical, and physical concepts that are relevant to the biological sciences.
- Basic knowledge about Mendelian, molecular, and population genetics, molecular biology, and the current status of genome projects.
- Basic knowledge about important aspects of cellular and developmental biology.

Political Science

Political science is the study of public power: its mobilization, exercise, and transformation by governments, interest groups, and mass behavior. Political scientists examine the causes and effects of political power and institutions in decision-making and governance at various levels, from the local to the global. We employ both scientific and humanistic perspectives and a variety of methodological approaches to analyze political structures and processes in all regions of the world.

Majors in political science are expected to:

- *Acquire basic knowledge* across the four major fields of political science—American Politics, Comparative Politics, International Relations, and Political Theory.
- *Gain deeper knowledge* of the scholarly literature in one of the four major fields.

- *Become familiar with debates* about theories, research methods, and substantive issues, and learn to engage and assess contributions to the literature.
- *Develop analytic and critical thinking skills* that will enable them to rigorously evaluate competing arguments and to appraise value-based claims.

Political science majors will acquire a knowledge foundation and an array of skills enabling them to pursue a wide variety of professional and leadership roles and to become responsible and well-informed citizens. We prepare our students for post-graduate studies in numerous areas including public policy, international affairs, law, business, and political science. Our department's challenging and supportive learning environment gives students the confidence to assume progressively greater initiative and independence through their undergraduate years and beyond.

Portuguese

- Portuguese majors will demonstrate an awareness of the history of the Portuguese language and its place among the Hispanic, Romance, and Indo-European languages.
- Students will be able to explain using appropriate linguistic terminology and concepts the similarities and divergences of Spanish and Portuguese from a common parent language, and recognize and describe linguistic diversity in Portugal, Brazil, and Lusophone Africa, including the features that characterize the most salient dialects.
- Students will demonstrate the capacity to read with good comprehension a variety of written texts, exhibiting a command of both prestige and informal grammar.
- Students will be able to understand the main ideas communicated in a standard spoken dialect of Portuguese, understand connected speech in Portuguese spoken at a moderate rate, and recognize distinctions in spoken Brazilian Portuguese and Continental Portuguese.
- Students will be able to engage in conversations on topics of personal and general interest and sustain communication by using connected sentences and units of greater length and substance.
- Students will be able to write informal and some formal correspondence, narratives, descriptions, and summaries of a factual nature, narrate and describe, using paraphrase and elaboration to achieve clarity in connected discourse, and express meaning that is comprehensible to those unaccustomed to the writing of non-natives, and demonstrate good control of the most frequently used structures.
- Students will demonstrate familiarity with the most significant literary and cultural expressions of Portugal, Brazil, and Lusophone Africa in their historical and social context, situate the

works studied in an appropriate temporal and geographic frame, and identify both the singularity and the shared features of the works studied.

- Students will demonstrate a critical understanding of the works they have studied; they will be able to discuss intelligently the themes, meanings, and language of the works studied, including those of some difficulty; students will be able to relate the works studied to the artistic, social, or political movements of which they are a part.
- Students will apply knowledge of the critical terminology needed for literary and cultural analysis in Portuguese, understand specialized critical terminology in works of theory and criticism, and employ appropriate terminology when analyzing texts.
- Students will be able to write clear and effective essays in Portuguese relating to the works and issues that they have studied and with good organization and appropriate research skills; they will be able to argue with some sophistication about the topic that forms the basis of their essays.
- Students will demonstrate command of the current-day prestige narrative dialect of Portuguese as found in newspapers and news magazines, recognize and produce grammar structures and vocabulary utilized in analyzing and reporting current events, and understand the cultural and political foundation underlying current events.
- Students will be able to comprehend and evaluate written news and television newscasts from both Brazil and Portugal, and understand the pronunciation of the prestige dialect in its spoken form spoken at full running speed, as in a newscast.
- Students will be able to analyze and articulate the linguistic structure of Portuguese sounds, words, and sentence structure, analyze the processes which create differences in pronunciation by native speakers at differing speech rates, and in differing speech styles, and recognize and describe the typical errors of English-speaking learners of Portuguese, including the ability to identify their own tendencies and repair non-fluencies.

Psychology

- Students obtain knowledge across a broad spectrum of content domains.
- Students are able to understand and evaluate research methods, designs, and statistics, and have opportunities to apply them in research endeavors.
- Students understand the ethical issues involved in the practice of psychology.
- Students are able to write and communicate effectively in the discipline.
- Students are provided with multiple learning environments.
- Students are well-educated in psychology and have the foundation for seeking employment, graduate or professional school opportunities after graduation.

Russian

- Russian majors are able to speak at a proficiency level sufficient to communicate in everyday and general professional contexts, demonstrating proficiency at ACTFL level Intermediate-Mid or higher.
- Students are able to initiate, sustain, and conclude conversations in Russian on a variety of everyday topics; obtain information by asking questions in Russian; offer information by answering questions in Russian; satisfy simple personal needs and social demands by using Russian; and show developing skills in producing coherent, connected narrative and descriptive discourse.
- Students demonstrate adequate listening skills to understand authentic Russian discourse—everyday conversations, news broadcasts, film and television dialogue, etc.
- Students are able to read and translate authentic non-technical Russian texts in a variety of genres (with occasional reference to a dictionary).
- Students are able to write a coherent 2-page essay on a variety of everyday as well as abstract topics, as well as email messages, letters, and other non-technical texts in Russian using grammatically correct structures and appropriate connectives.
- Students acquire the analytic skills needed to discuss, analyze, and conduct research on Russian media, texts, and other cultural artifacts, demonstrating those skills by writing a 5–6- page paper in Russian.
- Students demonstrate language skills by making debate-style presentations in Russian and answering questions from an audience.
- Students demonstrate a pragmatic knowledge of Russian culture to interact effectively with educated Russians and to demonstrate a contextualized understanding of texts produced by Russians past and present, both everyday texts such as newspapers, magazine articles, websites, documents, and literary texts like short stories and novels.

Sociology

- Students obtain comprehensive knowledge of the field of Sociology.
- Students acquire a grasp of the theoretical perspectives and concepts of the discipline.
- Students are able to understand and evaluate research methods, designs, and statistical procedures and have opportunities to conduct research.
- Students are provided with a strong foundation for seeking employment or graduate or professional training.
- Honors students are able to engage in original research, write a senior thesis, and successfully compete for national scholarships and admission to leading graduate programs

Spanish

- Students will demonstrate possession of the critical vocabulary needed for literary and cultural analysis in Spanish; students will understand specialized critical vocabulary in works of theory and criticism, and employ appropriate terminology when analyzing texts.
- Students will exhibit familiarity with some of the most significant literary and cultural expressions of Spain and/or Latin America in the appropriate socio-historical context.
- Students will demonstrate a critical understanding of the works they have read and studied, and discuss intelligently themes, meanings, and language of the works studied.
- Students will be able to relate works studied to the artistic, social, or political movements to which they pertain, and to relate the concerns and issues present in the works studied to the concerns and issues present in the society of which they are a part.
- Students will be able to write clear, effective analytical papers in Spanish relating to the works and issues that they have studied; they will be able to write papers of substantial length with good organization, minimal errors in grammar, good choice of vocabulary, and appropriate research skills; students will be able to argue persuasively and with some sophistication about the topic that forms the basis of their essays.
- Students will demonstrate an understanding of how the sounds and grammatical structures of Spanish are organized into the phonological and syntactic systems of the language; they will recognize and describe the phonemic and allophonic inventory of the Spanish sound system as well as basic phonological processes within that system
- Students will be able to do basic linguistic analysis in several subfields. Students will be able to describe linguistic phenomena using appropriate terminology in Spanish, and apply methodologies appropriate to a specific subfield, accessing the tools and resources available to them for linguistic analysis and/or for laboratory or field work.
- Students will appreciate the linguistic and cultural perspective of native speakers; they will be able to recognize and describe the errors of English-speaking learners of Spanish; students will demonstrate familiarity with the diversity of the Spanish language as it is spoken throughout the Hispanic world.
- Students will be able to understand the main ideas of most speech in a standard dialect of Spanish, comprehend and give appropriate feedback to a variety of oral texts, including interviews, lectures on familiar topics, and news items, and demonstrate awareness of culturally implied meanings beyond the surface meaning of oral texts.
- Students will be able to engage in conversations in most informal and some formal settings on topics of personal and public interest; students will be able to narrate orally, to describe in major time frames with good control of aspect, and to sustain communication with suitable accuracy and confidence.
- Students will be able to write routine informal and some formal correspondence, narratives, descriptions, and summaries of a factual nature, narrate and describe in major time frames,

paraphrase and elaborate to provide clarity in connected discourse; they will be able to express meaning that is comprehensible to those unaccustomed to the writing of non-natives with good control of the most frequently used structures.

Speech and Hearing Science

- To provide a means by which to determine the efficacy of our program in teaching the fundamentals of speech-language science and hearing science to our majors. In the initial development of these instruments, we are most interested in cumulative assessment of their understanding of science-related information in their senior year.
- To provide a means by which to determine the level of progress of our students in understanding professional issues and knowledge that the program's two senior-level courses provide in the area of speech-language pathology (Sp/Hrng 520) and audiology (Sp/Hrng 540). This will serve as a formative assessment of students as they progress through these two courses.
- To determine how well our students are prepared for graduate school in our field or for employment in our field.

Theatre, BA

- To provide opportunity for all members of The Ohio State University community--students, faculty, staff, alumni--to participate in the theatre art as performer, technologist, or spectator;
- To offer the citizens of the State of Ohio, the United States, and the international community, through courses, institutes, productions, lectures, and consultations, opportunities for theatre education and production;
- To conducting research and creative activities that will contribute to the enrichment of the university and to the field of theatre at large.
- To recognize theatre as an art form that has influence on the social and cultural aspects of our society as evidenced in various modes of theatrical production.
- To appreciate the historical contribution of playwrights and performances of the past and recognize the benchmark theatrical productions, historical periods, and the cultural diversity of the art form.
- To apply a variety of critical theories, methods, and research sources in the analysis of play texts and their performance.
- To write analyses of play productions that address aspects of performance including text, direction, design, construction, acting, and appropriateness of interpretation.
- To identify the fundamental elements of the art of acting and possess an understanding of the acting process
- To execute and construct simple lighting, scenic, and costume designs with an understanding

of concept, aesthetics, design unity, and modern technological practices.

- To realize the physical and vocal demands of the performer and practice techniques for improving these vital skills.
- To communicate effectively with the variety of artists involved in this unique collaborative art form through the skillful use of theatre vocabulary.
- To respond as an informed audience member who is able to make value judgments as to the quality of performance.
- To possess the requisite skills and educational background to gain entry into graduate education programs in theatre throughout the country for further training should that be their desire.
- To demonstrate an understanding of the theatre production process within the highest professional standards of the industry.
- To participate in performance, in design and technology work, in writing, in speaking, or as an audience member throughout his/her life with a basic enthusiasm for the theatre.

Women's Studies

- To train students to think critically and in interdisciplinary ways about gender and women's issues in relation to class, race, and disability
- To help students explore women's cultural identities, social roles and relationships, sexualities, health, education, history, and political activism, as well as their forms of cultural and artistic expression in literature, film, music, and art;
- To provide in-depth knowledge in one of the following concentration areas of a) difference and diversity, b) culture and representation, and c) political contexts and social change.
 - Students will be able to pursue interdisciplinary inquiries about gender and pose questions that cut across disciplinary fields.
 - Students will be able to do an intersectional analysis of a topic or problem (that is, analyze problems with attention to gender, race, and class).
 - Students will be able to understand the gendered structures of institutions and their effects on individuals.
 - Students will be able to do research, develop an argument, and organize data and evidence for that argument.

World Literatures

- To increase students' awareness and appreciation of the world's diverse literary and cultural heritage;
- To develop productive ways of thinking about cultural differences and cross-cultural interactions within the context of an increasingly interconnected world

- To provide students with a knowledge base that will enrich their lives as citizens of the nation and the world.
 - Develop strong critical, analytical, and writing skills
 - Understand the importance of literary and cultural theory in the interpretation of literary texts and gain the ability to use theory to analyze texts productively.
 - Appreciate the complexity of issues related to translation, particularly in regard to highly language-sensitive literary texts, and to the transmission of ideas and values across cultures.
 - Appreciate the multiplicity and diversity of the world's different cultures and modes of literary and cultural expression.

Zoology

Students will achieve:

- Understanding of the chemical, mathematical, and physical concepts that are relevant to the biological sciences.
- Basic knowledge about Mendelian, molecular, and population genetics, molecular biology, and the current status of genome projects.
- Basic knowledge about important aspects of cellular and developmental biology.
- Basic understanding of fundamental differences between bacterial, fungal, plant and animal systems.