EM credit tests studied

By Terry Trimper
3-12-80

Examination (EM) credit could be given for classes not offered at Ohio State if a subcommittee formed by the Council on Admissions and Registration likes the idea.

A subcommittee is reviewing the possibilities of giving EM credit for special courses, particularly for transfer students, who want credit for classes taught at other schools, according to Thomas A. Willke, the council's chairman.

The general feeling of the subcommittee is positive toward giving "credit for proven learning," Willke said, but the subcommittee has just begun to study how to administer the tests and whether to charge for them.

Another subcommittee has been looking into the possibility of charging a fee for already existing EM credit, Willke said, but the chances of this becoming reality are very slim.

Council members thought the idea should be examined because many other schools charge for EM credit, Willke said.

Besides recovering some of the costs of testing itself, a fee may "discourage frivolous EM test-taking," he said. Paperwork and payment to proctors constitute much of the tests' costs.

Because OSU does not require a test fee, the failure rate of EM tests is much higher at OSU than at other universities, he said. Unprepared students take the tests on the chance they will pass, he added.

The subcommittee gave a progress report at a council meeting Friday, but Willke said he did not believe there is much interest in charging money for EM tests presently used.

Another topic discussed at the meeting was an "over 90 hours problem" of students transferring into colleges either from University College (UVC) or other universities.

These students do not really belong in UVC, Willke said, even if they do not have the prerequisites needed to enter a particular college.

During the meeting, council members spelled out a university rule to better explain what should be done with these students.

A college has the option to deny registration to students if the requirements needed are not met within a specific time period designated by students and their counselors, Willke said.

Willke said a problem arises in transfers out of UVC because students currently are asked to sign a slip labeling their intended major beforehand.

Many students do not realize the slip is not binding, Willke said.
Credit by Examination 1988-89

Our program

Credit earned through The Ohio State University's Credit by Examination Program, known as EM credit, is counted toward graduation when entered on the permanent record. This allows students to progress more rapidly toward their educational and career objectives by reducing the investment of money and time normally required for program completion. Moreover, while EM credit rewards students for their knowledge, the examinations also challenge students to acquire new knowledge and greater understanding.

With the approval of the appropriate academic units, students may earn up to 45 quarter hours of examination credit. Additional EM credit hours may be authorized by special action of the academic units and the Council on Academic Affairs.

Ohio State students may not obtain EM credit for courses which are prerequisite to those in which they have earned college credit. Students should note that EM credit shall not be given for a course in which the student has received a mark at this University or for which he or she has transfer credit from another institution. Conversely, no course for which EM credit has been received can be taken later for a grade or credit. Students also should check the individual college bulletins for exclusion information that would prevent the awarding of EM credit in any particular course, program, or subject area. Most examinations for credit may be taken only one time.

Regional campus students who are interested in these examinations should contact the appropriate regional campus office.

Examination costs

Ohio State offers academic examinations for proficiency credit free of charge. This represents an appreciable savings in terms of a student's college-related costs. However, there is a charge for the American College Test (ACT), the College Level Examination Program (CLEP), the DANTES Subject Standardization Tests (DSST), and the Advanced Placement Program (APP) examinations described later in this publication.

You are eligible

All currently enrolled Ohio State undergraduates are eligible to take part in this program. In addition, students still in high school may take certain CLEP and APP examinations. Upon satisfactory achievement on these examinations and subsequent enrollment at Ohio State, credit may be awarded toward these students' college programs.

Many exams are available

Ohio State offers examinations for credit and placement by the Office of Testing, by various departments of instruction, and through CLEP, DANTES, and APP programs. A list of these examinations may be found in this brochure. Further, students interested in earning EM credit for any Ohio State course not listed herein should contact the department offering the course to determine if a proficiency examination is available. Please note that some CLEP and APP examinations are equivalent to existing Ohio State examinations for credit. The equivalent University examinations, which are free of charge, are so indicated in their particular listings.

When and where exams are given

Some language examinations are offered during the University Orientation Program. Details about these tests are furnished in the orientation literature. However, some language examinations as well as all examinations offered by individual departments require the students to make individual test arrangements with the appropriate departments. Please refer to the exam listings for additional information. For other test arrangements, call the Office of Testing at (614) 292-0708.

Some exams are available to high school students

High school students interested in obtaining EM credit through the CLEP program may find it convenient to take such examinations while in high school, and they are encouraged to do so. Students planning to enroll at Ohio State should have their official CLEP scores reported to the Admissions Office, OSU, Third Floor Lincoln Tower, 1800 Cannon Drive, Columbus, Ohio 43210-1230.

Testing for the APP program is conducted in May of each year. Students must register through their respective high schools to take these exams. Students planning to enroll at Ohio State should have the results of their APP examinations forwarded to the Office of Testing, OSU, 1230 Lincoln Tower, 1800 Cannon Drive, Columbus, Ohio 43210-1230.

Please refer to the appropriate section for a listing of those CLEP and APP examinations recognized for potential credit at Ohio State.

Recommended texts

Some of the recommended texts mentioned in this publication can be obtained from the OSU Bookstores, Derby Hall, 154 North Oval Mall, Columbus, Ohio 43210-1378.

Office of Testing examinations

Testing procedures At the time of testing, students must present their University identification cards with current paid fee stickers. A proctor will be assigned for any Ohio State examination for credit. Students must provide written evidence of having met that requirement, such as a grade slip showing completion of the course or a current registration form indicating enrollment in the course. (The procedures applicable to the CLEP or APP programs can be found in those particular listings.)

Quarterly testing schedule Ohio State examination arrangements may be initiated throughout the quarter; however, students who are currently enrolled in courses and who would like to earn EM credit for those courses must contact the Office of Testing within the first week of the quarter. Arrangements may be made by calling (614) 292-0708.

In the listings, please note that the asterisks indicate the course examinations in the CLEP series. A dagger indicates that credit for that course is available through the APP series. The number appearing in parentheses after each course indicates the number of quarter hours credit awarded for that course.

Accounting

211 Introduction to Accounting (5)
Not open to students with credit for Accounting 201 or 202. This is a non-calculator examination designed to evaluate the student's understanding of the principles that govern the preparation of external financial reports and the student's comprehension of alternative valuation models. Use of calculators is permissible. Recommended text: Corder, Teaching Vocabularies, Interstate Printers & Publishers Inc., 1968.

212 Introduction to Accounting (5)
It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Accounting 201 and Economics 200, or in lieu, not open to students with credit for Accounting 201 or 202. A 2-hour multiple-choice examination designed to evaluate the student's understanding of the concepts underlying the managerial decision models appropriate for various decisions and the decision models themselves. Use of calculators is permissible. Recommended text: Current text for 212 (see University Bookstores).

Agricultural Education

100 Introduction to Agricultural Education (5)
Agronomy

200 Crop Science (5)
It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Biology 100 or 110 or Botany 110 or Botany 111 in order to succeed in this course.

201 Animal Science (5)
This course covers the importance of plants to man's existence; classification of crop plants; animal nutrition; physiology and function of crop plants; soil quality and its improvement; and the interaction of soil, plant, and microorganisms in nutrient cycling, water availability, and disease resistance. Recommended text: J. Jenck, R. B. Sherry, S. W. Woods, V. W. Rutlant, Plant Science, 4th ed., W. H. Freeman Co., 1990.

Botany

112 General Botany (5)
A 2-hour course. A comprehensive coverage of principles and processes of plant growth, development, and behavior. Studying the anatomy and physiology of angiosperms, eudicots, mosses, ferns, and lichens. This class is designed for credit in Horticulture 201. A 2-hour objective exam covers the importance of plants to man's existence; classification of crop plants; animal nutrition; physiology and function of crop plants; soil quality and its improvement; and the interaction of soil, plant, and microorganisms in nutrient cycling, water availability, and disease resistance. Recommended text: J. Jenck, R. B. Sherry, S. W. Woods, V. W. Rutlant, Plant Science, 4th ed., W. H. Freeman Co., 1990.

Business Administration: Finance

620 Business Finance (4)
It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Economics 400 or equivalent. A 2-hour multiple-choice exam designed to assess the student's understanding of financial analysis, financial accounting, capital budgeting, design of the capital structure, and sources of financing for the business firm. Recommended texts: Keown, et al., Basic Financial Management, 3rd ed., Prentice-Hall, 1989. Brigham, Financial Management, 4th ed., Dryden Press, 1989.

Business Administration: Management Sciences

330 Decision Sciences: Statistical Techniques (5)

Business Administration: Marketing

650 Marketing (4)
Critical survey of field of marketing: structure, functions, policies, and problems. Emphasis on consumer and other viewpoints; emphasis on principles, trends, and quantitative expression. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Economics 400 or equivalent. A 2-hour multiple-choice exam designed to assess the student's understanding of the broad area of marketing described above. Recommended texts: Pride and Ferrell, Marketing, 3rd ed.

Chemistry

101 Elementary Chemistry (5)
A course in the principles of chemistry; the chemistry of the more important elements and compounds. Students must show proof of placement in Chemistry 111 or completion of Science 111 or 113 or 115 or 117 or 119 or 121 or 123 or 125 or 127. A 2-hour exam only for students with credit for Chemistry 121, H201, or 204. A 1-hour and 45-minute objective exam.

121 General Chemistry (5)
A general course in fundamental chemical principles. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed one unit of high school chemistry. Students must show proof of placement in Mathematics 150 or completion of Mathematics 150 or 151 or 152. Required text: Abell, Exploration of the Universe, 4th ed.; or Protheroe, Caprillo, and Newsum, Exploring the Universe, 3rd ed.

111 Elementary Astronomy (5)
Astronomy 191 and 192 are a comprehensive introduction to modern astronomy; 191 deals with the solar system and the earth as an astronomical body. Not open to students with credit for Astronomy 150 or 152. Prerequisite at the level of Mathematics 102 is required. A 2-hour exam only for students with credit for Chemistry 121, H201, or 204. A 1-hour and 45-minute objective exam.

122 General Chemistry (5)
Continuation of Chemistry 121; the chemistry of the most important elements and of chemical reactions in solution. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed one unit of high school chemistry. Students must show proof of placement in Mathematics 150 or completion of Mathematics 150 or 151 or 152. Required text: Abell, Exploration of the Universe, 4th ed.

121 General Chemistry (5)
A continuation of Chemistry 121; the chemistry of the most important elements and chemical reactions in solution. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed one unit of high school chemistry. Students must show proof of placement in Mathematics 150 or completion of Mathematics 150 or 151 or 152. Required text: Abell, Exploration of the Universe, 4th ed.

Biological Sciences

10 General Botany (5)
A 2-hour course. A comprehensive coverage of principles and features of the major groups of plants, including algae, fungi, and flowering plants. Recommended text: Raven, et al., Biology of Plants, 4th ed., Worth Publishers, Inc., or any current college botany text.

121 General Botany (5)
A 2-hour course. A comprehensive coverage of principles and features of the major groups of plants, including algae, fungi, and flowering plants. Recommended text: Raven, et al., Biology of Plants, 4th ed., Worth Publishers, Inc., or any current college botany text.

122 General Botany (5)
A 2-hour course. A comprehensive coverage of principles and features of the major groups of plants, including algae, fungi, and flowering plants. Recommended text: Raven, et al., Biology of Plants, 4th ed., Worth Publishers, Inc., or any current college botany text.

205 Principles of botany (5)
Continuation of Biology 204. A 1-hour and 45-minute objective exam.

Dairy Science

201 Fundamentals of Dairy Science (5)

Food Technology

241 Introduction to the Food Industries (5)
A 2-hour objective and essay exam. Covers principles involved in modern methods of assembling, processing (cooking, preserving, dehydrating, fermenting, and specialty products manufacturing), and distribution. Consult instructor before taking the examination.

Geology and Mineralogy

100 Introduction to Geology (5)
Geologic principles and the historical development of the earth and its life forms through time. Not open to students with credit for Geology and Mineralogy 121, or 122. A 2-hour objective and essay exam. Recommended texts: Foster, Geology and Mineralogy and Tartuck, Essentials of Geology, 2nd ed.; Uligar, McMenzie, and Fuller, Laboratory Manual for Introductory Geology, rev. ed.

121 Physical Geology (5)

122 Historical Geology (5)
It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Geology and Mineralogy 111. A 2-hour objective and essay exam. Recommended texts: Jackson and Lister, Uniformitarianism and Superposition, Its Meaning and Application in the Physical Geology of the Northern U.S. and North America; theories of continental drift and sea-floor spreading. The History of the Earth from Its Fossil Record. Recommended texts: Dott and Batten, Evolution of the Earth, 3rd ed., Prentice-Hall, Geology 2nd ed.

History

111 Western Civilization: Antiquity to the Seventeenth Century (5)
A 2-hour essay exam. Ancient civilizations (Near East, Greece, Rome, and classical civilizations (Byzantium, Islam, Europe). Renaissance and Reformation. Study guide to be available mid-Spring Quarter.

112 Western Civilization through Modern Times (5)
A 2-hour essay exam. Political, scientific, and industrial revolutions: nationalism; the two world wars; decline of empires; the cold war. Study guide to be available mid-Spring Quarter.

151 American Civilization, 1607 to 1877 (5)

152 American Civilization Since 1877 (5)

Mathematics

The Department of Mathematics will make arrangements for a qualified student to take an examination for credit for the following courses offered during the academic year (except Mathematics 450, 475, 104, or 187). Students who believe their math placement results are inaccurate may schedule a proficiency test (similar to a final exam) over the course of their initial placement. Students who wish to demonstrate proficiency will be permitted to schedule a more advanced courses. Examinations over other courses may be available upon request.

Arrangements should be made through the Math Counseling Office, 110 Mathematics Building, 231 West 18th Avenue, Columbus, Ohio 43210-1191, 292-6994.
116 Survey of College Algebra (5)
College algebra, analytic geometry, linear algebra and linear programming; It is advised that the student have a level of knowledge of experience comparable to that of students who have successfully completed Mathematics 105 or the student must pass the OSU Math Placement Test. Not open to students with credit for Mathematics 130, 148, 158, or math courses having these as prerequisites.

117 Survey of Calculus (5)
An introduction to differential and integral calculus. It is advised that the student have a level of knowledge of experience comparable to that of students who have successfully completed Mathematics 116 or 120 or 148 or 150 or equivalent. Not open to students with credit for Mathematics 132 or 151.

130 Elements of Algebra (4)
Equations, inequalities, absolute value, functions, exponential and logarithmic functions, systems of equations and matrix algebra. It is advised that the student have a level of knowledge of experience comparable to that of students who have successfully completed Mathematics 075 or the student must pass the OSU Math Placement Test. Not open to students with credit for Mathematics 116 or 148 or 150.

131 Elements of Calculus I (4)
Limits, tangents, continuity, differentiability, derivatives of the logarithmic and exponential functions, applications of calculus to business. It is advised that the student have a level of knowledge of experience comparable to that of students who have successfully completed Mathematics 132 or 148 or 150. Not open to students with credit for Mathematics 151.

132 Elements of Calculus II (4)
Antidifferentiation, definite integral, integral of the logarithmic and exponential functions, integration by substitution, areas, parallel and LaGrange multipliers, applications of calculus to business. It is advised that the student have a level of knowledge of experience comparable to that of students who have successfully completed Mathematics 132 or 148 or 150. Not open to students with credit for Mathematics 152.

148 College Algebra (4)
Rational exponents, inequalities, functions, graphs of polynomial and rational functions, conic sections, zeros of polynomial. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Mathematics 101 or the student must have a satisfactory score on OSU Math Placement Test. Not open to students with credit for Mathematics 150.

150 Elementary Functions (5)
Inverse functions; logarithmic, exponential and trigonometric functions and their graphs; complex numbers. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Mathematics 148 or who have satisfactory score on OSU Math Placement Test in students with credit for Mathematics 151, 161, 1101 or 1191.

151 Calculus and Analytical Geometry (5)
Limits, continuity, derivatives, Mean Value Theorem, extreme, curve sketching, related rates, differentiation of logarithmic, exponential, hyperbolic functions. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Mathematics 150 or who have satisfactory score on OSU Math Placement Test.

152 Calculus and Analytical Geometry (5)
Integral, area, fundamental theorems of calculus, logarithmic and exponential functions, trigonometric and inverse trigonometric functions, integration, integration by substitution, polar coordinates. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Mathematics 151.

153 Calculus and Analytical Geometry (5)
Vectors and analytic geometry in two and three dimensions; functions of several variables, partial derivatives, gradients; extrema; multiple integrals; applications; cylindrical and spherical coordinates. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Mathematics 152.

254 Calculus and Analytical Geometry (5)
Indeterminate forms. L'Hopital's Rule, improper integrals; sequences and series with power series, tests of convergence. Vector calculus, line and surface integrals, Green's Theorem, vector fields. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Mathematics 153.

Physics
Note: Calculators may be used, but not shared, during the following examinations in the Physics series.

111 General Physics: Mechanics and Heat (5)
Required in preential and premedical curricula. Students must show proof of eligibility to enter Mathematics 150. A 2-hour objective exam. Covers fundamental units, vectors, displacement, velocity, acceleration, falling bodies, projectile motion, circular motion, Newton's Laws, conservation of energy, work, power, kinetic and potential energy, conservation of energy, simple harmonic motion, kinematics, heat, and thermodynamics. Change of phase, and equilibrium. Recommended text: Galileo's Discovery. Ed. by H. E. V. P. 1955. (Material contained in chapters 1-8, 10-13.)

112 General Physics: Electricity, Magnetism, and Light (5)
Required in preential and premedical curricula. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Mathematics 116 or 120 or 148 or 150 or equivalent. Not open to students with credit for Mathematics 132 or 151.

113 Introductory Physics: Particles and Motion (5)
A presentation of the major concepts of physics from a contemporary point of view, for students majoring in physical sciences, mathematics, or engineering. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Mathematics 116 or 120 or 148 or 150. Not open to students with credit for Mathematics 151.

132 Elements of Calculus II (4)
Antidifferentiation, definite integral, integral of the logarithmic and exponential functions, integration by substitution, areas, parallel and LaGrange multipliers, applications of calculus to business. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Mathematics 132 or 148 or 150. Not open to students with credit for Mathematics 152.

133 Introductory Physics: Thermal Physics and Electrodynamics (5)
It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Physics 131. Students must show proof of eligibility to enter Mathematics 152. Not open to students with credit for Physics 102. A 2-hour objective exam. Recommended text: Sears, Zemansky, and Young, University Physics Chapters 1-13 or other equivalent chapters in other texts such as Bueche, Introduction to Physical, Halliday and Resnick, Fundamentals of Physics.

134 Introductory Physics: Electro dynamics and Quanta (5)
It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Physics 132. Students must show proof of eligibility for Mathematics 153. Not open to students with credit for Physics 233. A 2-hour objective exam. Required text: Halliday, Resnick, and Young, University Physics 7th Ed; (chapters 30-44 or equivalent). See list for Physics 131.

135 Introductory Physics: Electric and Magnetic Phenomena (5)
It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Physics 133. Students must show proof of eligibility for Mathematics 154. Not open to students with credit for Physics 223. A 2-hour objective exam. Required text: Halliday, Resnick, and Young, University Physics 7th Ed; (chapters 30-44 or equivalent). See list for Physics 132.

1101.01 Elementary Linear Algebra I (5)
Requires knowledge of Calculus I, Physics I, and Alcock's Elementary Modern Archaic, Part One (EMSA 1), Lessons 1-6 or equivalent.

102.01 Elementary Linear Algebra II (5)
It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Elementary Linear Algebra I. Requires knowledge of EMSA 1, Lessons 7-14 or equivalent.

103.01 Modern Linear Algebra I (5)
It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Modern Linear Algebra I. Requires knowledge of EMSA I, Lessons 1-24 or equivalent.

104.01 Modern Linear Algebra II (5)
It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Modern Linear Algebra I. Requires knowledge of EMSA I, Lessons 1-30.

Chinese
Admitted only by the department of instruction, placement and EM credit examinations normally are offered only during the first week of each quarter. Students with previous knowledge of Chinese who do not seek EM credit for this experience but who wish to enroll initially in a course above the level of Chinese 101 are required to take the appropriate placement.

Foreign language examinations
This section describes the procedures for taking foreign language examinations for credit and placement. Please read carefully all instructions concerning these examinations since there are significant differences in the programs offered by each department.

In the listings, note that the asterisks indicate the course examinations in the CLEP series. A dagger indicates that credit for that course is available through the AP series. Examinations in parentheses after each course indicate the number of quarter hours credit awarded for that course.

Quarterly testing schedule
Examinations for credit for some foreign languages will be offered on the first day of each quarter. French, German, Latin, Russian, and Spanish exams also may be taken during the quarter. Please contact the respective departments for procedural information.

Students who plan to study a foreign language as part of their academic program are advised to continue their study of the language immediately and must take the placement/proficiency examination. Those students who do not intend to register for a language course but who desire EM credit for previous language study or experience should also take the tests which permit immediate awarding of EM credit at the 103 level, if the scores are high enough. EM credit for 101 and 102 is also available if the language of the test is not the language used in an unconditional admission to the University. When the preliminary test results indicate eligibility for EM credit at the 104 level, or above, the student may be asked to take a supplementary proficiency test which is given by special arrangement. Students are asked to contact the appropriate department for information.

Note: Certain tests for credit for foreign language in area specified in the following matrix will be offered as part of the Autumn Quarter orientation program. Details concerning these exams are provided in the orientation literature.

Arabic
These tests are administered only by the department of instruction. Students who wish to schedule a test should contact the Department of Judic and Near Eastern Languages and Literatures, OSU, 256 Cunz Hall, 1841 Millikin Road, Columbus, Ohio 43210-1229, phone (614) 292-9255.

101.01 Elementary Literary Arabic I (5)
Requires knowledge of Elementary Arabic I, and Alcock’s Elementary Modern Archaic, Part One (EMSA 1), Lessons 1-6 or equivalent.

102.01 Elementary Literary Arabic II (5)
It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Elementary Literary Arabic I. Requires knowledge of EMSA 1, Lessons 7-14 or equivalent.

103.01 Modern Literary Arabic I (5)
It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Modern Literary Arabic I. Requires knowledge of EMSA I, Lessons 1-24 or equivalent.

104.01 Modern Literary Arabic II (5)
It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Modern Literary Arabic I. Requires knowledge of EMSA I, Lessons 1-30.
examination(s) before permission to enroll will be granted. Students who do desire EM credit for previous language study or experience must pass the relevant examination(s) with an acceptable score. EM credit for any course listed here in which a student receives a passing score will be granted only upon successful completion of the next course in the sequence.

Requests for further information may be addressed to the Department of East Asian Languages and Literatures, OSU, 276 Cunz Hall, 1841 Millikin Road, Columbus, Ohio 43210-1229; phone (614) 292-5816.

101.01 Elementary Modern Chinese I (5)
A spoken exam covering the first six lessons of Beginning Chinese. Written exam covering characters for the first three lessons of Beginning Chinese.

102.01 Elementary Modern Chinese II (5)
A spoken exam covering lessons 1-12 of Beginning Chinese. A written exam covering characters for lessons 3-9 of Beginning Chinese.

103.01 Elementary Modern Chinese III (5)
A spoken exam covering lessons 1-18 of Beginning Chinese. A written exam covering characters through lesson 15 of Beginning Chinese.

104.01 Elementary Modern Chinese IV (5)
A spoken exam covering all of Beginning Chinese. A written exam covering characters through lesson 21 of Beginning Chinese.

205 Intermediate Modern Chinese (5)

206 Intermediate Modern Chinese (5)
A spoken exam covering lessons 1-8 of Intermediate Chinese. A written exam covering Read Chinese Book Two.

Classics: Greek and Latin

Students are asked to contact the Department of Classics, OSU, 414 University Hall, 230 North Oval, Columbus, Ohio 43210-1319 or telephone (614) 292-2744 for testing information. These tests should not be taken more than one quarter prior to continuing the study of Greek and Latin.

The examination for EM credit and placement in Latin 101, 102, and 103 is an objective one of the multiple-choice type. The best preparation is extensive reading in Latin and review of grammar.

EM credit for Latin 101.01, 102.01, 103.01 will be granted on the basis of the linguistic competence shown on the examination. Credit for higher level courses may be granted after an individual interview and may also require the completion of a further examination. Students should consult the Department of Classics about earning credit for courses numbered 104 or higher in Latin and for Greek 101, 102, 103, and 104.

The introductory courses in Greek 101, 102, and 103 cover all the basic forms and syntax of language and require the acquisition of a basic reading vocabulary. In Greek, the equivalent material is to be found in Chase and Phillips: A New Introduction to Greek (Harvard University Press.) The first stage of intermediate Greek (beyond Greek 103) assumes the ability to read and comprehend the simpler prose of Xenophon, Plato and the New Testament.

The introductory courses in Latin—101 and 102—cover most of the basic forms and syntax of the language and require the acquisition of a basic vocabulary in Latin.

In Latin, the material contained in Chapters 1 through 40 of F. M. Wheelock, Latin, (Barnes and Noble College Outline Series No. 104), provides an approximate equivalent. The first stage of Intermediate Latin 103 consists of continuation, consolidation and refinement of the basic forms and syntax through review drills and of introduction to reading in Latin prose and poetry. Completion of the course assumes the ability to read and comprehend prose as represented by Cicero and poetry as represented by Catullus.

Note: Students participating in the University Orientation Program for Autumn Quarter should plan to take these examinations at dates and times specified in the orientation literature.

Greek

101 Elementary Ancient Greek I (5)
Covers A New Introduction to Greek, Lessons 1-16

102 Elementary Ancient Greek II (5)
It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Greek 101. Covers A New Introduction to Greek, Lessons 17-30

103 Intermediate Ancient Greek I (5)
It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Greek 101. Covers A New Introduction to Greek, Lessons 31-40, and supplementary readings.

Latin

101.01 Elementary Latin I (5)
Not open to students with credit for Latin 100. Covers basic elements of Latin, with particular attention to reading proficiency.

102.01 Elementary Latin II (5)
It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Latin 101.01 or 5 cr hrs of 101.02, or 101.51. Not open to students with credit for Latin 100.

103.01 Intermediate Latin I (5)
Intermediate readings with emphasis on authors of the first century A.D. It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Latin 102.01 or 5 cr hrs of 102.02, or 102.51.

104 Intermediate Latin II (5)
Intermediate readings in Latin poetry and prose. It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Latin 103.01 or 5 cr hrs of 103.02, 103.51, or 112.

German

EM examinations in German are administered on the first day of each quarter and during orientation. Students should consult the Department of German for full particulars. The Exams (also called "German Placement Tests") should be taken not more than one quarter prior to continuing the study of German. Proficiency examinations in German 104 and 109 and in some 200-level courses can be arranged through the department. All questions pertaining to the above may be addressed to the Department of German, OSU, 314 Cunz Hall, 1841 Millikin Road, Columbus, Ohio 43210-1229; phone (614) 292-6995.

Note: Students participating in the University Orientation Program for Autumn Quarter should plan to take these tests at the time and location specified in the orientation literature.

101.01† Elementary German I (5)
102.01† Elementary German II (5)
103 Intermediate German I (5)

Hebrew

These tests are administered only by the department of instruction. Students who wish to schedule a test should contact the Department of Judaic and Near Eastern Languages and Literatures, OSU, 256 Cunz Hall, 1841 Millikin Road, Columbus, Ohio 43210-1229 or telephone (614) 292-9255. All tests consist of a 1/2-hour written examination and a half-hour oral examination.

101 Elementary Hebrew I (5)
Requires knowledge of Hayon's Modern Hebrew 1, units 1-8 or equiv.

102 Elementary Hebrew II (5)
It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Hebrew 101. Requires knowledge of Hayon's Modern Hebrew 1, units 1-10, and Modern Hebrew 2, units 11-14, or equiv.

103 Intermediate Hebrew I (5)
It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Hebrew 102 or Modern Hebrew 2, units 11-20, and Modern Hebrew 3, units 21-30, or equiv.

104 Intermediate Hebrew II (5)
It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed Hebrew 103 or 112. Requires knowledge of Hayon's Modern Hebrew 1, units 1-10, Modern Hebrew 2, units 11-20, and Modern Hebrew 3, units 21-30, or equiv.

Japanese

Administered only by the department of instruction, placement and EM credit examinations normally are offered only during the first week of each quarter. Students with previous knowledge of Japanese who do not seek EM credit for this experience but who wish to enroll initially in a course above the level of Japanese 101 are required to take the appropriate placement examination(s) before permission to enroll will be granted.

Students who do desire EM credit for previous language study or experience, whether or not they intend to register for a language course above Japanese 101, must achieve an acceptable score on the relevant examination(s).

Requests for further information may be addressed to the Department of East Asian Languages and Literatures, OSU, 276 Cunz Hall, 1841 Millikin Road, Columbus, Ohio 43210-1229; telephone (614) 292-5816.

101.01 Elementary Modern Japanese I (5)
A 30-minute oral and 1-hour written exam. The oral exam will cover material through Lesson 8 of Beginning Japanese by Eleanor Harz Jorden. The written exam will cover recognition of kanji and recognition and production of hiragana.

102.01 Elementary Modern Japanese II (5)
It is advised that the student have a level of experience with Japanese exceeding that of students who have successfully completed Japanese 101. A 45-minute oral and a 1-hour written exam will cover material through Lesson 14 of Beginning Japanese by Eleanor Harz Jorden. The written exam will cover reading and writing of kanji and hiragana as introduced in Lessons 1-14 of Beginning Japanese by Eleanor Harz Jorden, and reading and writing in hiragana. The students are expected to write in kana anything they can say.

103.01 Elementary Modern Japanese III (5)
It is advised that the student have a level of experience with Japanese exceeding that of students who have successfully completed Japanese 102. A 45-minute oral and a 1-hour written exam will cover material through Lesson 20 of Beginning Japanese by Eleanor Harz Jorden. The written exam will cover material through Lesson 15 of Reading Japanese by Eleanor Harz Jorden. Additional kanji will be given for reading.

104.01 Elementary Modern Japanese IV (5)
It is advised that the student have a level of experience with Japanese exceeding that of students who have successfully completed Japanese 103. A 1-hour oral and a 1-hour written exam. The oral exam will cover material through Lesson 26 of Beginning Japanese by Eleanor Harz Jorden. The written exam will cover material through Lesson 16 of Reading Japanese by Eleanor Harz Jorden.

205 Intermediate Modern Japanese (5)
It is advised that the student have a level of experience with Japanese exceeding that of students who have successfully completed Japanese 104. A 1-hour oral and a 2-hour written exam. The oral exam will cover material through Lesson 31 of Beginning Japanese by Eleanor Harz Jorden. The written exam will cover through Lesson 21 of Reading Japanese by Eleanor Harz Jorden.
Romance languages: French & Spanish
Students who have had French or Spanish before entering Ohio State University must take the placement tests. Those students who do not intend to register for a language course but who desire EM credit for previous language study or experience should also take the tests. It should be noted that these examinations are given to Autumn Quarter orientation participants at the time and location specified in the orientation literature. Other students are asked to contact the Department of Romance Languages and Literatures for applicable testing information.

These objective placement tests permit immediate awarding of EM credit for 101.01, 101.02, and 103.01 in French and in Spanish if the test scores are high enough. When the preliminary test results indicate eligibility for EM credit for French or Spanish 104.01 or above, the student is asked to take a supplementary proficiency test. This test is given by special arrangement and students are asked to contact the Department for information. There is no awarding of EM Credit to native speakers for lower level language courses.

Placement tests for students entering Ohio State University with previous training in Italian or Portuguese will be arranged at any time by contacting the departmental office. The placement tests in Italian and Portuguese permit immediate awarding of EM credit for Italian 103 and Portuguese 103 if the test scores are high enough. Students who do not intend to register for an Ohio State Language course in Italian or Portuguese but desire EM credit for previous study of these languages can take the tests.

All questions about these language tests can be addressed to the Department of Romance Languages and Literatures, OSU, 248 Cunz Hall, 1841 Millikin Road, Columbus, Ohio 43210-1229 or call (614) 292-5842.

French

101.01† Elementary French I (5)
102.01† Elementary French II (5)

103.01† Intermediate French I (5)
104.01† Intermediate French II (5)

105 Elementary French Conversation and Composition (5)

Unlimited oral interview in French following the placement test to determine proficiency in spoken French. It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed French 103.01 or 5 cr hrs of French 103.01 or 104.02.

Introduction to Modern French Literature (5)
A 2-hour objective and essay examination. It is advised that the student have a level of knowledge or experience exceeding that of students who have successfully completed French 104.

Spanish

101.01† Elementary Spanish I (5)

102.01 Elementary Spanish II (5)

103.01 Intermediate Spanish I (5)

104.01 Intermediate Spanish II (5)

105 Elementary Spanish Conversation and Composition (5)
Departmental examinations

This section describes the examinations administered only by individual departments of instruction. Details on the special arrangements necessary to take these tests can be obtained by calling the individual numbers listed. The area code for all numbers is 614.

In the listings, please note that the asterisks indicate the course examinations in the CLEP series. A dagger indicates that credit for that course is available through the AP series. The number appearing in parentheses after each course indicates the number of quarter hours credit awarded for that course.

Aeronautical and Astronautical Engineering 292-2691

200 Elements of Aeronautics and Astronautics (4)


201 Elements of Aeronautics and Astronautics (4)

A continuation of 200 with emphasis on aircraft propulsion, flight performance, static stability, and control. It is advised that the student have knowledge or experience comparable to that of students who have successfully completed Aeronautical Engineering 200. Recommended texts: J. Anderson, Introduction to Flight, McGraw Hill, Fundamentals of Flight, R. Shveteil.

202 Elements of Aeronautics and Astronautics (4)

A continuation of 201 with emphasis on static stability and control and air loads. Introduction to astronautics. It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed at least Aeronautical and Astronautical Engineering 200 and 201.

Agricultural Economics 292-7911

100 Food, Fiber, and Natural Resource Economics (5)


250 Computers in Agricultural Decisions (5)

A 3-hour exam comprised of objective and essay questions. Covers concepts of agricultural production, prices, management information system, the rate of adoption of computer technology in agriculture; the potential future role of computer technology; the farm sector; hardware and components of a computing system; software concepts and software for agriculture; the BASIC language; the use of general purpose applications software in problems management. Exam is comprised of multiple choice questions and problems centering on BASIC program development and coding.

Agricultural Mechanization and Systems 292-6131

110 Engineering in Agriculture (5)

Covers the engineering approach for designing agricultural systems to meet economic or social constraints: design, development, evaluation, production, and marketing; engineering requirements for optimal environments for plant growth; the environment for storage of agricultural products; development and processing systems; and engineering evaluation of complete environmental conditions. Application for crop and livestock production. Recommended text: Introduction to Agricultural Engineering, Roth, Crow, and Mahoney, AVI text, 1975.

232 Small Air-Cooled Engines (4)

Principles of operation, maintenance, and repair of small air-cooled engines.

240 Fabrication of Metal in Agribusiness and Agricultural Applications (4)

Principles and techniques in the fabrication of metal using welding and other processes needed in agricultural and agribusiness applications.

241 Building Materials and Construction in Agriculture (4)

Principles and techniques in the fabrication of wood, concrete, and masonry materials used in agricultural and agricultural applications.

250 Machines for Agricultural Operations (3)

Analysis of field machine operations with emphasis on nutrition and biomass, and on the selection and use of machines for optimum economic performance.

270 Engineering Methods in Soil and Water Conservation (3)

Instrument surveying, aerial and topographic maps, rainfall and runoff, and engineering applications of soil and water management in farms and on recreational areas.

Agronomy 292-2002

240 Soil Science (5)

It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Chemistry 101 and 102, or 121 and 122, or Biology 121. A 2-hour exam covers the use of the five factors of soil formation to locate boundaries between soils and to develop the soil classification system: the role of particle sizes and arrangements on water, gases, and root movements; the role of ion exchange reactions on the availability of nutrients and on nutrient cycles.
short essay questions. Recommended texts: Purvis & Orient, Life, the Sciences of Biology, Kerhon & Gould, Biologist Sciences; Villee, Solomon, & Davis, Biology.

Dance 292-7977

200 The Development of Western and Classical Dance (5)
Development of dance as a performing art in Europe and the United States, with a survey of major stylistic trends, principal artists, and their works.

657 History of Dance I (3)
Survey of dance as a communal activity, functioning as ritual, art, and play, with particular emphasis on dance in tribal cultures and in the Greek theatre.

658 History of Dance II (3)
Survey of dance from medieval times to the late 18th century, with particular emphasis on dance styles of the 15th through the 18th centuries.

659 History of Dance III (3)
Survey of dance in Europe and the United States from the end of the 18th century to the present, with emphasis on ballet and modern dance.

Educational Policy and Leadership 292-5037

251 Evaluation of Occupational Competency (3-6)
An examination to determine vocational experience and competency necessary for certification as a vocational teacher, open to students who pursue a major in vocational teacher education.

Family Resource Management 292-4389

260 Family Financial Management (3)
The management of family financial resources. Topics include financial planning and budgeting, insurance, credit, savings, and investment. Open only to students with credit for Home Mgt and Housing 228. A 2-hour multiple choice exam, covers topics included in the syllabus for this course.

300 Introduction to Home Equipment (5)
Principles involved in the selection, construction, operation, and care of household equipment and their relation to the well-being of the family. Not open to students with credit for Home Mgt and Housing 324. A 2-hour objective exam covers topics included in the syllabus for this course.

341.01 Family Management Theory (3)
Management process of utilizing specific resources for families' well-being with consideration of the interdependence and interrelationships with the environment and associated organizational systems. Not open to students with credit for Home Mgt and Housing 324. A 2-hour objective exam required. Exam covers topics included in the syllabus for Home Mgt and Housing 341.01.

Horticulture 292-1800

631 Arboriculture (5)
Environmental factors affecting plant growth and the planting, fertilization, pruning, cabling, and diagnosis of disorders in commercial arboriculture, city, forestry, park, and industrial grounds maintenance. It is advised that the student have a level of knowledge and experience comparable to that of a student who has successfully completed Horticulture 435, Botany 431 or 436, Entomology 440, Plant Pathology 491; or equivalents. Not open to students with credit for Horticulture 731. A 2-hour exam, including slides for identification. Recommended texts: See instructor.

Human Nutrition and Food Management 292-4485

310 Fundamentals of Human Nutrition (5)
Nutrient and food energy needs of the human biological system throughout the life cycle with consideration of socio-psychological factors. It is advised that the student have a level of knowledge and experience comparable to that of students who have successfully completed 5 hours of biological sciences equivalent. A 2-hour objective exam. Recommended text: Consult course reserve list in Home Economics Library, 325 Campbell Hall.

314 Fundamentals of Food (5)
Application of chemical and physical principles to food preparation and use. It is advised that the student have a level of knowledge and experience comparable to that of students who have successfully completed 10 hours of chemistry or equivalent. A 2-hour objective exam. Following successful completion of the written examination, the student is required to complete a 2-hour practical examination. Recommended text: Consult course reserve list in Home Economics Library, 325 Campbell Hall.

413 Food Management for Families (3)
Exam will consist of written component, with demonstration (skills) component optional for the department to determine.

Mathematics 292-5994
Students who feel that their mathematics placement is incorrect or who wish to qualify for more advanced courses will have an opportunity to retest.

Students will not be taking another placement test, but rather an exam similar to a final over the course of their initial placement. A score of 70% or higher is required for permission to move ahead. While any student is welcome to take advantage of the retesting opportunity, experience has shown that only about 5% of those who retest actually succeed in advancing their placement.

Students interested in scheduling for the retest should contact the Math Counseling Office, MA 110, 231 W. 18th Avenue, Columbus, Ohio 43210-1101, (614) 292-6994 for details.

Microbiology 292-2301
522 Principles of Infection and Resistance
Multiple choice—100 questions. Covers pathogenic mechanisms and basic immunology.

Music 292-6571
Examinations must be arranged through the area chairperson for each course. Contact the School of Music, OSU, 110 Weigel Hall, 1866 College Road, Columbus, Ohio 43210-1170.

Other courses listed in the Course Offerings Bulletin are available for examination credit. Permission of the area chairperson in the School of Music is required before students may take such examinations.

141 Introduction to Music (5)
Not open to music majors. A 2-hour objective exam. Arranges through the School of Music. Covers knowledge and recognition of compositions, composers, styles, and musical media as they relate to course materials.

201 Applied Music (Principal) (1 or 2)

221 Music Theory I (3)

222 Music Theory II (3)

223 Music Theory III (3)

224 Aural Training I (1)

225 Aural Training II (1)

226 Aural Training III (1)

281 Applied Music Methods and Materials I (1 or 2)

282 Applied Music Methods and Materials II (2)

283 Applied Music Methods and Materials III (2)

284 Applied Music Methods and Materials IV (2)

270 Basic Experiences in Music: Fundamentals (3)
Ear-training, music reading, creative writing, voice production, and some instrumental experience as applied to the music program in the elementary school.

421 Music Theory IV (3)

422 Music Theory V (3)

423 Music Theory VI (3)

424 Aural Training IV (2)

425 Aural Training V (2)

426 Aural Training VI (2)

Natural Resources 292-2265

201 Introduction to Conservation of Natural Resources (4)
Examinations must be arranged through the School of Natural Resources, 310 Kottman Hall, 202 Coffey Road. A course syllabus is available in that office for the course.

This 2-hour objective examination covers introductory conservation, natural resources and environmental management, nature and scope of environmental problems: technical and socio-economic aspects of the solution of such problems. Recommended text: Miller, G. Tyler Jr., Environmental Science: An Introduction, Wadsworth, Publishing Company, Belmont, California, A Division of Wadsworth, Inc.

Poultry Science 292-4821

200 Fundamentals of Poultry Science (5)
It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Biology 110 and Animal Science 190. A 2-hour objective exam. If the student passes the objective test successfully, he or she will be given a 2-hour practical exam. Covers brooding, housing, feeding, diseases, marketing, feed management, meat science, and miscellaneous poultry, breed identification, selection of breeders, identification of the gross anatomical structures of domestic fowl, disease diagnosis, egg candling, and grading of poultry for market. Recommended texts: Moore & Ayres, Poultry Science and Production, Reston Publishing Inc., A Prentice Hall Co., Boston, Mass., 1985.

Rural Sociology 292-7911

105 Introduction to Rural Sociology (5)

Textiles and Clothing 292-8063

270 Clothing Selection and Costume Design (3)
It is advised that the student have a level of knowledge or experience comparable to that of students who have successfully completed Art 190, 250 or History of Art 111, Philosophy 240, Art Education 160 or equivalent. A 2-hour multiple choice, objective, completion, and true-false exam. Covers elements and principles of design, personal coloring and figure analysis, and analysis of garment design. A score of 80 is required to gain EM credit in this course. Recommended text: Davis, Basic Design in Textiles.

374.01 Principles of Fit and Construction (4)
Alteration of patterns and construction of garments for individual proportions. Analysis of fit and construction of ready-to-wear. It is advised that the student have a level of knowledge and experience comparable to that of students who have skills in clothing construction and tailoring. Part I of exam is a one hour multiple choice test which covers fitting, pattern alterations and clothing construction. A score of 80 qualifies the student to take Part II, the lab exam which combines altering patterns and a presentation of a minimum of three garments recently made by the student. Recommended text: Erwin, Clothing for Moderns.

374.02 Flat Pattern Design (2)
Theory and application of flat pattern design principles. It is advised that the student have a level of knowledge or experience comparable to that of students who have skills in clothing construction and tailoring. Part I of exam is a one hour multiple choice test covering flat pattern design principles. Score of 80 on this part qualifies the student to take Part II, the lab exam which consists of flat pattern work. Recommended text: Armstrong, Pattern Making for Fashion Design.
CLEP exams

The College Level Examination Program (CLEP) tests that have been approved for EM credit are listed in this section.

These tests are administered at CLEP testing centers throughout the country once each month. Written applications must be completed and on file at the testing center selected usually not later than three working weeks prior to the requested testing date. The Ohio State University schedules CLEP testing for the third week of each month.

The fees for the subject examinations are listed on the standard CLEP application form.

Applications and other detailed information can be obtained from the Office of Testing, OSU, 1230 Lincoln Tower, 1800 Cannon Drive, Columbus, Ohio 43210-1230; any other authorized CLEP testing center; or from the Educational Testing Service, Princeton, New Jersey 08541.

Students who desire to earn EM credit through the CLEP program must have their official score reports sent to the Admissions Office, OSU, Third Floor Lincoln Tower, 1800 Cannon Drive, Columbus, Ohio 43210-1230.

CLEP examinations

<table>
<thead>
<tr>
<th>Course number</th>
<th>Test name</th>
<th>Credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 110†</td>
<td>Biology</td>
<td>5</td>
</tr>
<tr>
<td>Business Administration: Introductory Business Law</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Finance 510</td>
<td>English 110</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry 121, 122†</td>
<td>General Chemistry</td>
<td>5 or 10</td>
</tr>
<tr>
<td>English (no course equivalent)</td>
<td>American Literature</td>
<td>3</td>
</tr>
<tr>
<td>English (no course equivalent)</td>
<td>English Language</td>
<td>5 (special credit)</td>
</tr>
<tr>
<td>English 180</td>
<td>English 180</td>
<td>5</td>
</tr>
<tr>
<td>History 111</td>
<td>History 111</td>
<td>5</td>
</tr>
<tr>
<td>History 112</td>
<td>History 112</td>
<td>5</td>
</tr>
<tr>
<td>History 151</td>
<td>History 151</td>
<td>5</td>
</tr>
<tr>
<td>History 152‡</td>
<td>History 152‡</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics 116†</td>
<td>College Algebra</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics 150†</td>
<td>Trigonometry</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics 150†</td>
<td>College Algebra-Trig.</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics 151†</td>
<td>Calculus with Elementary Functions</td>
<td>5</td>
</tr>
<tr>
<td>Psychology 100†</td>
<td>General Psychology</td>
<td>5</td>
</tr>
<tr>
<td>Sociology 101</td>
<td>Introductory Sociology</td>
<td>5</td>
</tr>
</tbody>
</table>

† Test given by Ohio State and also available through CLEP.
‡ If the original CLEP essay manuscript is not available, the Ohio State Department of History reserves the right to require the candidate to write a departmental essay examination.

DSST exams

The Ohio State University is authorized to administer DANTES Subject Standardization Tests (DSST). These tests complement the College Level Examination Program (CLEP) and offer subjects not offered by the CLEP Program.

Contact the Office of Testing for information about test titles, costs, and scheduling. Contact the Undergraduate Transfer Area Evaluation Area in the Admissions Office for information concerning credit requirements.

APP exams

The Advanced Placement Program (APP) examinations approved for EM credit are listed in this section. Each May examinations for each subject are administered nationally and scored as follows: 5, extremely well qualified; 4, well qualified; 3, qualified; 2, possibly qualified; 1, no recommendation.

The various academic departments at Ohio State are responsible for determining the amount of credit to be awarded for the subjects taught within their particular areas. An on-going policy review by departments takes place annually, and therefore the amount of credit to be awarded is subject to change. Currently, the following information is in effect:

APP examinations

<table>
<thead>
<tr>
<th>Subject and course</th>
<th>Score</th>
<th>Qtr. hrs. credited</th>
</tr>
</thead>
<tbody>
<tr>
<td>American History 151, 152</td>
<td>4, 5</td>
<td>6</td>
</tr>
<tr>
<td>151, 152</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>Biology</td>
<td>3, 4, or 5</td>
<td>20</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3, 4, or 5</td>
<td>25</td>
</tr>
<tr>
<td>English Composition and Literature</td>
<td>3, 4, or 5</td>
<td>5</td>
</tr>
<tr>
<td>English Composition and Literature</td>
<td>3, 4, or 5</td>
<td>10</td>
</tr>
<tr>
<td>European History 110</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>111, 112</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>French Language</td>
<td>3, 4, or 5</td>
<td>20</td>
</tr>
<tr>
<td>French Literature</td>
<td>3, 4, or 5</td>
<td>20</td>
</tr>
<tr>
<td>German Language</td>
<td>3, 4, or 5</td>
<td>20</td>
</tr>
<tr>
<td>German Literature</td>
<td>3, 4, or 5</td>
<td>20</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>3, 4, or 5</td>
<td>15</td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>3, 4, or 5</td>
<td>15</td>
</tr>
</tbody>
</table>

Office of Testing
1230 Lincoln Tower
1800 Cannon Drive
Columbus, Ohio 43210
(614) 292-0708