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## TABLE OF CONTENTS

Standing Advisory Committee Roster 2000-2001 ................................................................. i

Introduction ................................................................................................................................. 1
  Changes in the ACGM................................................................................................................ 1
  The ACGM and the Academic Unique Need Inventory ......................................................... 1
  Instructions: How to Read and Use the ACGM ................................................................. 2
  The Texas Common Course Numbering System (TCCNS) .................................................. 4
  Addition and Deletion of Courses ..................................................................................... 4
  Unique Need Courses ....................................................................................................... 6
  Distance Learning ............................................................................................................. 7
  Developmental Courses ................................................................................................... 7

List of Approved Courses ..................................................................................................... 8
  ACCT (Accounting) .......................................................................................................... 8
  AGRI (Agriculture) .......................................................................................................... 8
  ANTH (Anthropology) ..................................................................................................... 12
  ARCH (Architecture) ....................................................................................................... 13
  ARTS (Studio Art & Art History) ..................................................................................... 15
  BCIS (Business Computer Information Systems) ............................................................. 20
  BIOL (Biology) ............................................................................................................... 24
  BUSI (Business) ............................................................................................................ 28
  CHEM (Chemistry) ....................................................................................................... 30
  CHIN (Chinese Language) ............................................................................................ 32
  COMM (Communication) ............................................................................................... 33
  COSC (Computer Science) ............................................................................................. 38
  CRIJ (Criminal Justice) .................................................................................................. 43
  CZEC (Czechoslovakian Language) ................................................................................. 45
  DANC (Dance) ............................................................................................................... 46
  DRAM (Drama) ............................................................................................................... 52
  ECON (Economics) ........................................................................................................ 55
  EDUC (Education) .......................................................................................................... 56
  ENGL (English) ............................................................................................................... 58
  ENGR (Engineering) ....................................................................................................... 61
  ENVR (Environmental Science) ..................................................................................... 63
  FREN (French Language) ............................................................................................... 64
  GEOG (Geography) ........................................................................................................ 65
  GEOL (Geology) ............................................................................................................. 67
  GERM (German Language) ............................................................................................ 70
  GOVT (Government) ...................................................................................................... 71
  GREE (Greek Language) ............................................................................................... 73
  HECO (Home Economics) ............................................................................................. 73
  HIST (History) ................................................................................................................ 75
  HORT (Horticulture) ....................................................................................................... 77
  HUMA (Humanities) ...................................................................................................... 77
  ITAL (Italian Language) ................................................................................................. 78
  JAPN (Japanese Language) ............................................................................................ 79
<table>
<thead>
<tr>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developmental Reading</td>
<td>121</td>
</tr>
<tr>
<td>Intermediate Algebra</td>
<td>120</td>
</tr>
<tr>
<td>Developmental Mathematics</td>
<td>120</td>
</tr>
<tr>
<td>TECA</td>
<td>119</td>
</tr>
<tr>
<td>SPAN</td>
<td>119</td>
</tr>
<tr>
<td>PSYC</td>
<td>119</td>
</tr>
<tr>
<td>PHIL</td>
<td>119</td>
</tr>
<tr>
<td>MATH</td>
<td>118</td>
</tr>
<tr>
<td>LATI</td>
<td>118</td>
</tr>
<tr>
<td>GEOL</td>
<td>118</td>
</tr>
<tr>
<td>GEOG</td>
<td>118</td>
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<td>118</td>
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<td>ENGR</td>
<td>118</td>
</tr>
<tr>
<td>ENGL</td>
<td>117</td>
</tr>
<tr>
<td>DRAM</td>
<td>117</td>
</tr>
<tr>
<td>EDUC</td>
<td>117</td>
</tr>
<tr>
<td>ARTS</td>
<td>116</td>
</tr>
<tr>
<td>BCIS</td>
<td>116</td>
</tr>
<tr>
<td>BIOL</td>
<td>116</td>
</tr>
<tr>
<td>COSC</td>
<td>116</td>
</tr>
<tr>
<td>CRIJ</td>
<td>116</td>
</tr>
<tr>
<td>DANC</td>
<td>117</td>
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<tr>
<td>DRAM</td>
<td>117</td>
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<tr>
<td>EDUC</td>
<td>117</td>
</tr>
<tr>
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<td>117</td>
</tr>
<tr>
<td>ENGR</td>
<td>117</td>
</tr>
<tr>
<td>ENVR</td>
<td>118</td>
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<td>GEOG</td>
<td>118</td>
</tr>
<tr>
<td>GEOL</td>
<td>118</td>
</tr>
<tr>
<td>KINE/PHED</td>
<td>118</td>
</tr>
<tr>
<td>LATI</td>
<td>118</td>
</tr>
<tr>
<td>MATH</td>
<td>118</td>
</tr>
<tr>
<td>MUSI</td>
<td>119</td>
</tr>
<tr>
<td>PHIL</td>
<td>119</td>
</tr>
<tr>
<td>PSYC</td>
<td>119</td>
</tr>
<tr>
<td>SGNL</td>
<td>119</td>
</tr>
<tr>
<td>SPAN</td>
<td>119</td>
</tr>
<tr>
<td>TECA</td>
<td>119</td>
</tr>
<tr>
<td>KINE (Kinesiology)</td>
<td>79</td>
</tr>
<tr>
<td>LATI (Latin Language)</td>
<td>80</td>
</tr>
<tr>
<td>MATH (Mathematics)</td>
<td>80</td>
</tr>
<tr>
<td>MUAP (Applied Music)</td>
<td>84</td>
</tr>
<tr>
<td>MUEN (Music Ensemble)</td>
<td>85</td>
</tr>
<tr>
<td>MUSI (Music)</td>
<td>86</td>
</tr>
<tr>
<td>PHED (Physical Education)</td>
<td>93</td>
</tr>
<tr>
<td>PHIL (Philosophy)</td>
<td>97</td>
</tr>
<tr>
<td>PHYS (Physics)</td>
<td>100</td>
</tr>
<tr>
<td>PORT (Portuguese Language)</td>
<td>102</td>
</tr>
<tr>
<td>PSYC (Psychology)</td>
<td>103</td>
</tr>
<tr>
<td>REAL (Real Estate)</td>
<td>106</td>
</tr>
<tr>
<td>RUSS (Russian Language)</td>
<td>106</td>
</tr>
<tr>
<td>SGNL (American Sign Language)</td>
<td>107</td>
</tr>
<tr>
<td>SOCI (Sociology)</td>
<td>107</td>
</tr>
<tr>
<td>SOCW (Social Work)</td>
<td>110</td>
</tr>
<tr>
<td>SPAN (Spanish Language)</td>
<td>110</td>
</tr>
<tr>
<td>SPCH (Speech)</td>
<td>112</td>
</tr>
<tr>
<td>TECA (Early Childhood Education)</td>
<td>115</td>
</tr>
</tbody>
</table>

New Courses ............................................................... 116

<table>
<thead>
<tr>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH</td>
<td>116</td>
</tr>
<tr>
<td>ARTS</td>
<td>116</td>
</tr>
<tr>
<td>BCIS</td>
<td>116</td>
</tr>
<tr>
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<td>116</td>
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<td>COSC</td>
<td>116</td>
</tr>
<tr>
<td>CRIJ</td>
<td>116</td>
</tr>
<tr>
<td>DANC</td>
<td>117</td>
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<tr>
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<td>117</td>
</tr>
<tr>
<td>EDUC</td>
<td>117</td>
</tr>
<tr>
<td>ENGL</td>
<td>117</td>
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<td>ENGR</td>
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<td>118</td>
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<td>118</td>
</tr>
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<td>KINE/PHED</td>
<td>118</td>
</tr>
<tr>
<td>LATI</td>
<td>118</td>
</tr>
<tr>
<td>MATH</td>
<td>118</td>
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<tr>
<td>MUSI</td>
<td>119</td>
</tr>
<tr>
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<td>119</td>
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<tr>
<td>PSYC</td>
<td>119</td>
</tr>
<tr>
<td>SGNL</td>
<td>119</td>
</tr>
<tr>
<td>SPAN</td>
<td>119</td>
</tr>
<tr>
<td>TECA</td>
<td>119</td>
</tr>
</tbody>
</table>

Developmental Courses ............................................. 120

<table>
<thead>
<tr>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Skills</td>
<td>120</td>
</tr>
<tr>
<td>Developmental Mathematics</td>
<td>120</td>
</tr>
<tr>
<td>Intermediate Algebra</td>
<td>120</td>
</tr>
<tr>
<td>Developmental Reading</td>
<td>121</td>
</tr>
</tbody>
</table>
Developmental Writing ......................................................................................................121
Developmental Composition for Non-Native Speakers .....................................................121
Developmental ESOL Oral Communication......................................................................121
Developmental ESOL Reading and Vocabulary.................................................................122
Developmental ESOL Writing and Grammar ....................................................................122

Courses Under Review ...........................................................................................................123

Deleted Courses.......................................................................................................................124
BUSI ...................................................................................................................................124
DRAM ................................................................................................................................124
ENGL ..................................................................................................................................124
HECO .................................................................................................................................124
HIST ...................................................................................................................................124
Human Development ..........................................................................................................124
MATH .................................................................................................................................124
OFAD .................................................................................................................................125
PSYC ..................................................................................................................................125
Developmental ....................................................................................................................125

Courses Lacking TCCN Designations ..................................................................................126
ART ....................................................................................................................................126
BIOLOGY ..........................................................................................................................126
ENGLISH ...........................................................................................................................126
HOME ECONOMICS ........................................................................................................127
MUSIC ................................................................................................................................127
PHYSICAL EDUCATION ................................................................................................127
Courses Not Eligible For Funding......................................................................................128

Appendix A:  Approved Field of Study Curricula ..............................................................131
Field of Study Curriculum for Child Development/Early Childhood Education............132
Field of Study Curriculum for Grade 4-8 Certification ......................................................133
Field of Study Curriculum for Business ..........................................................................134
Field of Study Curriculum for Music .................................................................................136

Appendix B:  Forms................................................................................................................139
Unique Need Course: Request For Approval Form ...........................................................140
Instructions for Requesting a Unique Need Course .........................................................141
Distance Learning Standards .............................................................................................142
Out-Of-State Credit Course Request ................................................................................143

Appendix C:  Distance Education and Off-Campus Instruction .......................................147
Approval of Distance Education and Off-Campus Instruction
at Public Colleges and Universities ................................................................................146

Appendix D:  Core Curriculum.............................................................................................153
Transfer & Field of Study Curricula Rules .......................................................................154
Assumptions and Defining Characteristics ......................................................................163

Appendix E:  Funding Category ..........................................................................................173
Funding Category Names and Funding Codes .................................................................176
Introduction

The Lower-Division Academic Course Guide Manual (ACGM) is the official list of approval numbers for general academic transfer courses that may be offered for state funding by public community and technical colleges in Texas. Questions concerning the content or implementation of the procedures in this manual should be directed to:

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The provisions for approval of general academic courses for state appropriations are outlined in the Coordinating Board's Rules and Regulations, Chapter 5, Subchapter S. Accordingly, the Coordinating Board established an Academic Course Guide Manual Review Committee with equal representation from public community colleges and public universities. This standing committee meets at least twice annually or more frequently as needed to recommend to the Coordinating Board staff appropriate courses to be added to, revised, or deleted from the Academic Course Guide Manual (ACGM). The members of the Committee who contributed to this edition of the ACGM are listed at the beginning of this manual.

CHANGES IN THE ACGM

The 2001 edition of the ACGM lists alphabetically by discipline the academic courses that are funded by the state for public community and technical colleges and are transferable to public universities. (For information regarding workforce education courses and their transferability, see the Workforce Education Course Manual.) This edition incorporates all course additions and changes summarized in the Summer 2000 Addendum to the Lower Division Academic Course Guide Manual. Course additions include new courses incorporated into field of study curricula or otherwise needed to reflect new curriculum trends.

THE ACGM AND THE ACADEMIC UNIQUE NEED INVENTORY

The 2001 ACGM serves as the generic academic course inventory for all community and technical colleges in Texas. Individual institutions are not required to maintain separate general academic course inventories. Courses listed in this manual may be offered and reported for funding without requesting approval from the Coordinating Board.

If a community or technical college wishes to offer a course not listed here, or offer an ACGM course for more credit or contact hours than listed, it must request approval for such a course on the basis of unique need. There are no provisions in the 2001 edition for special topics courses. A resulting inventory of Unique Need Courses is the only academic inventory required of individual institutions. Colleges must continue to report academic courses according to instructions in the most recent edition of the Reporting and Procedures Manual for Public Community and Technical Colleges published by the Educational Data Center of the Coordinating Board. All "edits" of reports must be in
accordance with the ACGM and the individual institutions' Unique Need Course inventories. The state will not fund academic courses at community and technical colleges that are not listed either in the ACGM or on the college’s Academic Unique Need inventory.

INSTRUCTIONS: HOW TO READ AND USE THE ACGM

In the previous edition of the ACGM, courses were listed in order of the 1990 Classification of Instructional Programs (CIP) code used by the U.S. Department of Education. To make the manual easier to use, the 2001 edition is organized alphabetically by academic disciplines currently taught at community and technical colleges. All common courses listed in the 2001 ACGM have been numbered to correspond to course numbers assigned by the Texas Common Course Numbering System (TCCNS).

Where available, each entry begins with a list of common course prefixes and numbers; for course descriptions with no common numbers currently assigned, a content descriptor (for example, “Environmental Science”) is listed. Beneath the course list appears a line listing the 10-digit approval number for the course, the matching content descriptor, and information about maximum semester credit hours (SCH) per student, maximum SCH per course, and maximum content hours per course. This information is underlined. Finally, a brief course description appears.

For example:

- BIOL 1106 (lab, 1st semester, for Biology majors)
- BIOL 1107 (lab, 2nd semester, for Biology majors)
- BIOL 1306 (lecture, 1st semester, for Biology majors)
- BIOL 1307 (lecture, 2nd semester, for Biology majors)
- BIOL 1406 (lecture + lab, 1st semester, for Biology majors)
- BIOL 1407 (lecture + lab, 2nd semester, for Biology majors)
- BIOL 1108 (lab, 1st semester)
- BIOL 1109 (lab, 1st semester)
- BIOL 1308 (lecture, 1st semester)
- BIOL 1309 (lecture, 2nd semester)
- BIOL 1408 (lecture + lab, 1st semester)
- BIOL 1409 (lecture + lab, 2nd semester)

**26.0101.51 03 General Biology**

Fundamental principles of living organisms including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of reproduction, genetics, ecology, and the scientific method are included.

- Approval Number ................................................................. 26.0101.51 03
- Content Descriptor ......................................................... General Biology
- Maximum SCH per student .................................................. 8
- Maximum SCH per course .................................................... 4
- Maximum contact hours per course ................................. 96

In this example, the 10-digit CIP approval number is 26.0101.5103. The first six digits of the approval number indicate subject matter and are based upon the CIP codes. The Coordinating Board staff assigns the last four digits. The 7th and 8th digits further
delineate course content, sequence, or approval category. The 9th and 10th digits indicate the funding category.

26.0101 is the CIP code for General Biology

51 is the code for the content listed in the course description. The range for these numbers is typically 51 to 59. However, if a course is approved as a Unique Need Course (as opposed to general approval), the 7th digit will be a 9 instead of a 5. If a course is approved as a permanent unique need, the 7th digit will be a 7 instead of a 5 or 9. If the course is approved for excessive credit and/or contact hours (more than allowed in the approved listing), the 7th digit will be an 8 instead of a 5 or 9.

03 is the current state funding code for biological sciences in public community and junior colleges. These codes range from 01 to 26.

A complete listing of the academic funding codes is contained in Appendix E.

(IMPORTANT NOTE: The 2002 edition of the ACGM reflects new state funding codes adopted this year. Most of these codes will not match funding codes found in the 1996 ACGM.)

After the CIP descriptor, “General Biology,” the maximum hours per student, semester credit hours (SCH) per course, and contact hours per course are listed:

8 is the maximum number of semester credit hours (SCH) per student for courses applicable toward an associate degree under this specific approval number. In this example, a college may allow students to take eight SCH of general biology courses and count them toward an associate degree.

4 is the maximum number of semester credit hours per course under this specific approval number. In this case, the maximum number is four. A college could offer a course under this approval number for four or fewer SCH, but not more. The college should award the SCH in proportion to the number of contact hours, type of instruction, and with regard to the assigned common course number.

A traditional Biology (or any other discipline) lecture course offered for three contact hours of lecture over a 16-week semester will earn three semester credit hours and carry a "3" in the second digit of the common course number. Similarly, a traditional lecture/lab course offered for three contact hours of lecture and three contact hours of laboratory over a 16-week semester would earn four semester credit hours and carry a "4" in the second digit of the common course number. In general, one semester credit hour is awarded per one contact hour of lecture instruction and one semester credit hour is awarded per two to four contact hours of laboratory instruction.

96 is the total maximum number of contact hours per course according to this particular approval number. Thus, a college can offer a course under the General Biology approval number for 96 or fewer contact hours, but not more. In this example, a four SCH biology course can be offered for up to a maximum 96
contact hours. During a regular 16-week semester, 96 contact hours in this particular course might be broken down into three hours of lecture per week and three hours of lab per week or into other combinations that total 96 contact hours.

In rare cases, no common courses have been identified for specific approval numbers. Approval numbers for religion courses, listed under the heading “RELI” in this manual, are an example. In such cases, the college may designate its own course prefixes and numbers.

THE TEXAS COMMON COURSE NUMBERING SYSTEM (TCCNS)
The TCCNS is a cooperative effort among Texas community colleges and universities to facilitate transfer of freshman and sophomore-level general academic courses.

The TCCNS provides a shared, uniform set of course designations for students and their advisors to use in determining both course equivalency and degree applicability of transfer credit on a statewide basis. When students transfer between two participating TCCNS institutions, a course taken at the sending institution transfers as the course carrying, or cross-referenced with the same TCCNS designation at the receiving institution.

For additional information about the TCCNS, consult the following web sites:

The TCCNS Matrix Online (http://www.tccns.org/ccn/) is hosted by Texas A&M University at Commerce. This web site contains a list of participating TCCNS institutions, the TCCNS taxonomy, the TCCNS history, and the TCCNS board members. The site also contains the master list of the common courses offered in Texas. The list is organized by institution and by TCCNS designation.

The Texas Higher Education Coordinating Board’s web site is http://www.thecb.state.tx.us. TCCNS Transfer Guides are available at the site. The Transfer Guides provide information and recommendations regarding specific common courses that students can take at Texas community and junior colleges to ensure degree applicability of transfer credit at four-year public universities. For example, if a student wishes to major in biochemistry and to begin his/her studies at Texarkana College and later transfer to Texas A&M University (TAMU), the student can (and should) consult the TAMU Transfer Guide for biochemistry. This guide will inform the student of exactly which courses to take at Texarkana College.

ADDITION AND DELETION OF COURSES
At the institution’s request, THECB staff and the Standing ACGM Review Committee may consider a course for placement in the ACGM. If THECB staff members determine that there is continued need for that course at that particular institution, then the course will be presented to the Standing ACGM Review Committee for review. If a majority of the committee votes that the course should be included in the ACGM, then the course description used by the institution initiating the request will be evaluated and revised by the committee if necessary.

The Standing ACGM Review Committee may consider information from the following categories to determine whether to include the course in the ACGM. The committee may
request additional information from the institution submitting the request; institutions are encouraged to submit any additional information for consideration they deem relevant.

HOWEVER, THE FOLLOWING IS NOT INTENDED TO BE AN EXHAUSTIVE LIST OF INFORMATIONAL CATEGORIES, NOR IS IT INTENDED THAT INSTITUTIONS SUBMITTING REQUESTS MUST SCORE HIGH MARKS IN ALL CATEGORIES.

The information for consideration may include the following:

- Unique Need approval history. Normally the course will have had Unique Need approval for at least the three previous years (one previous year if the course is applicable to the core curriculum).
- The course has met the criteria for inclusion in an institution’s course inventory as a Unique Need course for a five-year cycle.
- Course frequency and enrollments for the preceding three years have been adequate.
- The course has current applicability to baccalaureate degree plans.
- Application to the Texas Common Course Numbering System (TCCNS). Final approval for inclusion in the ACGM is contingent upon the assignment of a common course number.
- Applicability of the course to the institution’s Core Curriculum.
- Frequency of similar courses statewide at both two and four-year institutions.
- Applicability of the course to an academic major or a statewide field of study curriculum.
- Course description.
- Consultation with appropriate academic, professional, credentialing, or accrediting organizations.

If a majority of the committee votes that the course should be included in the ACGM, then the course description used by the institution initiating the request will be evaluated and revised by the committee if necessary. If a course is not approved by the ACGM committee and THECB staff determines that an institution has continued need of the course, the institution may continue to offer the course on a Unique Need basis.

The Standing ACGM Review Committee will review and consider a biannual survey of courses in the ACGM. THECB staff, using the CBM004 and other means to determine how frequently courses are taught, will conduct the survey. The ACGM committee may also consider recommendations for deletion from institutions or academic, professional, credentialing, or accrediting organizations. The course recommended for deletion will be placed under review for at least two years by a majority vote of the ACGM committee. THECB staff will contact the institutions still teaching the course to alert them of the “under review” status. Any course under review for two years may be removed from the ACGM by a majority vote in favor of removal by the Standing ACGM Review Committee.

The basis for deletion may include the following:

- Infrequently offered courses, or low enrollments in courses statewide.
- Lack of applicability to a four-year degree, or obsolescence in a discipline.
UNIQUE NEED COURSES

Approval for a course not available under an ACGM approval number or for one with credit and/or contact hours in excess of the limits prescribed by the ACGM must be approved by the Coordinating Board according to the Boards Rules and Regulations. When applying for a Unique Need Course, submit a Request For Approval. Be sure that all information requested is addressed or attached as needed. A copy of this form appears in Appendix B.

For courses to be included in the ACGM as Unique Need Courses, each specific course must meet the two following criteria:

1. The course must be acceptable for transfer to two or more Texas and/or regional universities. Copies of letters documenting transferability must be included in the application. The letters must state that the course will be applied to degree requirements, preferably for the core curriculum or a specific major, but at least as elective credit.

2. The course requested must have college and university level rigor. Courses designed to meet a community service, leisure, vocational, or a vocational need are inappropriate for unique need approval and will not receive state (academic) funding.

Upper-division courses at community and technical colleges will not be funded by the state and may not be added to the ACGM. However, if regional universities decline to offer an upper division course and if that course also meets the two criteria above, a community or junior college may request approval to add the course to its inventory of Unique Need Courses and to receive funding as such. The prerequisites of the proposed course must meet both institutions’ prerequisites.

The procedures for Unique Need Approval are:

1. The application for each Unique Need Course submitted to the Coordinating Board must be accompanied by a proposal that states the various needs for the course and a syllabus that includes a course description, detailed course outline, and objectives. This proposal must also document that the course is transferable to two public universities and that it meets the requirement for college and university rigor.

2. Colleges must reapply for approval of Unique Need Courses annually. At the institution’s request upon the third consecutive approval, a course may be considered for continued placement in that institution's course inventory. Requests must include the enrollments and frequency with which the course was offered during the preceding two years.

3. Exemptions to the three year approval procedure may be requested if a Unique Need Course is transferable as part of the state’s and the Coordinating Board’s mandated Core Curriculum. An institution may request that such a course be considered for inclusion after the course has been taught the previous academic year. These requests must include the enrollments and frequency with which the course was offered during the preceding years.
The Coordinating Board and the Standing ACGM Review Committee will review and evaluate the continued need for Unique Need Courses in accordance with a five-year cycle.

**DISTANCE LEARNING**

For community colleges, distance learning may take the form of instruction offered at distant sites -- out-of-district, out-of-state, or out-of-country -- or instruction delivered primarily by telecommunications technology. Unless specifically exempted by the Coordinating Board, all state-funded distance learning courses and programs must be submitted for annual review to the appropriate Higher Education Regional Councils (Subchapter H, Approval of Distance Learning for Public Colleges and Universities, of the Coordinating Board Rules and Regulations, Chapter 5.) The text of Subchapter H is included in the appendix of this manual.

An "Annual Plan" for Distance Learning consists of a listing by location of distance learning courses and programs planned to be taught during an academic year by an institution. The Annual Plan must include a signed statement of institutional commitment to Distance Learning Standards (see appendix for this form). Each college must prepare an Annual Plan in January for the following academic year. For example, the Annual Plan for 2001-2002 must be prepared in January 2001. The Annual Plan will be submitted by the college to the appropriate Higher Education Regional Council(s) for approval during council meetings in January or February. The Higher Education Regional Councils thereafter make recommendations to the Commissioner of Higher Education regarding the Annual Plans. The Commissioner in turn makes recommendations regarding the Annual Plans to the Coordinating Board at its April meeting.

Colleges wishing to offer academic courses for state funding for which all or part of the courses would be taught outside Texas must obtain prior approval from the Coordinating Board staff. The form needed to request approval for an out-of-state (or out-of-country) academic course appears in the Appendix.

**DEVELOPMENTAL COURSES**

Developmental course work may be reported for state reimbursement but does not result in degree credit. Because developmental courses do not transfer, no common courses are listed for developmental approval numbers. Colleges may designate their own course titles but should follow the specified restrictions for number of SCH per student, maximum SCH, and maximum contact hours. The first digit developmental course numbers should be “0” to indicate that the course does not carry credit.

Developmental course approval numbers are listed in a separate chapter of this manual. (See Table of Contents)
List of Approved Courses

ACCT (ACCOUNTING)

ACCT 2301 Principles of Accounting I - Financial (3 SCH version)
ACCT 2401 Principles of Accounting I - Financial (4 SCH version)

ACCT 2302 Principles of Accounting II - Managerial (3 SCH version)
ACCT 2402 Principles of Accounting II - Managerial (4 SCH version)

Accounting concepts and their application in transaction analysis and financial statement preparation; analysis of financial statements; and asset and equity accounting in proprietorships, partnerships, and corporations. Introduction to cost behavior, budgeting, responsibility accounting, cost control, and product costing.

Approval Number ............................................................................................... 52.0301.51 04
CIP Area ............................................................Business, Management, & Administrative Support
maximum SCH per student...................................................................................... 8
maximum SCH per course ............................................................................... 4
maximum contact hours per course ................................................................ 96

AGRI (AGRICULTURE)

AGRI 1307 Agronomy (3 SCH version)
AGRI 1407 Agronomy (4 SCH version)

Principles and practices in the development, production, and management of field crops including plant breeding, plant diseases, soils, insect control, and weed control.

Approval Number ............................................................................................... 02.0402.51 01
CIP Area ........................................................................................................... Agricultural Sciences
maximum SCH per student...................................................................................... 4
maximum SCH per course ............................................................................... 4
maximum contact hours per course ................................................................ 96

AGRI 1309 Computers in Agriculture

Use of computers in agricultural applications. Introduction to programming languages, word processing, electronic spreadsheets, and agricultural software.

Approval Number ............................................................................................... 01.0101.51 01
CIP Area ...........................................................................................................Agribusiness & Agriculture Production
maximum SCH per student...................................................................................... 3
maximum SCH per course ............................................................................... 3
maximum contact hours per course ................................................................ 64
AGRI 1311  Dairy Science
Survey of the dairy industry including dairy breeds, standards for selection and culling, herd replacements, feeding, management, physiology, and health maintenance. Food value for milk, tests for composition and quality, and use and processing of market milk and dairy products.

Approval Number ................................................................. 02.0206.51 01
CIP Area ........................................................................ Agricultural Sciences
maximum SCH per student ...................................................... 3
maximum SCH per course ...................................................... 3
maximum contact hours per course ........................................ 64

AGRI 1413  Plant Protection (freshman version)
AGRI 2313  Plant Protection (sophomore version)
Principles and practices of controlling and preventing economic loss caused by plant pests. Includes instruction in entomology, plant pathology, weed science, crop science, environmental toxicology, and related environmental protection measures.

Approval Number ................................................................. 02.0408.51 01
CIP Area ........................................................................ Agricultural Sciences
maximum SCH per student ...................................................... 4
maximum SCH per course ...................................................... 4
maximum contact hours per course ........................................ 96

AGRI 1315  Horticulture (3 SCH version)
AGRI 1415  Horticulture (4 SCH version)
(Also see HORT 1301 or 1401)
Structure, growth, and development of horticultural plants from a practical and scientific approach. Environmental effects, basic principles of propagation, greenhouse and outdoor production, nutrition, pruning, chemical control of growth, pest control, and landscaping.
(Cross-listed as HORT 1301 or 1401)

Approval Number ................................................................. 01.0601.51 01
CIP Area ........................................................................ Agribusiness & Agriculture Production
maximum SCH per student ...................................................... 4
maximum SCH per course ...................................................... 4
maximum contact hours per course ........................................ 96

AGRI 1319  Introductory Animal Science (3 SCH version)
AGRI 1419  Introductory Animal Science (4 SCH version)
Scientific animal agriculture. Importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of beef cattle, swine, sheep, goats, and horses.

Approval Number ................................................................. 02.0201.51 01
CIP Area ........................................................................ Agricultural Sciences
maximum SCH per student ...................................................... 4
maximum SCH per course ...................................................... 4
maximum contact hours per course ........................................ 96
AGRI 1325  Marketing of Agricultural Products

Operations in the movement of agricultural commodities from producer to consumer, including the essential marketing functions of buying, selling, transporting, storing, financing, standardizing, pricing, and risk bearing.

Approval Number .......................................................... 01.0102.51 01
CIP Area ........................................................................... Agribusiness & Agriculture Production
maximum SCH per student .................................................. 3
maximum SCH per course .................................................... 3
maximum contact hours per course ..................................... 48

AGRI 1327  Poultry Science

Introduction to the poultry industry. Practices and principles in the production and marketing of turkeys, layers, broilers, and specialized fowl. Management, automated equipment, product technology, incubation, and production economics.

Approval Number .......................................................... 02.0209.51 01
CIP Area ........................................................................... Agricultural Sciences
maximum SCH per student .................................................. 3
maximum SCH per course .................................................... 3
maximum contact hours per course ..................................... 64

AGRI 1329  Principles of Food Science

Biological and scientific aspects of modern industrial food supply systems. Food classification, modern processing, and quality control.

Approval Number .......................................................... 02.0301.51 01
CIP Area ........................................................................... Agricultural Sciences
maximum SCH per student .................................................. 3
maximum SCH per course .................................................... 3
maximum contact hours per course ..................................... 64

AGRI 1131  The Agricultural Industry (1 SCH version)
AGRI 1231  The Agricultural Industry (2 SCH version)

Overview of world agriculture, nature of the industry, resource conservation, and the American agricultural system, including production, distribution, and marketing.

Approval Number .......................................................... 01.0103.52 01
CIP Area ........................................................................... Agribusiness & Agriculture Production
maximum SCH per student .................................................. 2
maximum SCH per course .................................................... 2
maximum contact hours per course ..................................... 32
AGRI 2301  Agricultural Power Units
Fundamentals of internal combustion engines: gasoline, diesel, and liquefied petroleum. Maintenance and adjustments of the electrical, ignition, fuel, lubricating, and cooling systems of agricultural power machinery.

Approval Number ................................................................. 01.0204.51 01
CIP Area ................................................................. Agribusiness & Agriculture Production
maximum SCH per student .................................................. 3
maximum SCH per course .................................................... 3
maximum contact hours per course .................................. 64

AGRI 2303  Agricultural Construction I
AGRI 2304  Agricultural Construction II
AGRI 2403  Agricultural Construction (4 SCH, single-semester course)
AGRI 2603  Agricultural Construction (6 SCH, single-semester course)
Selection, use, and maintenance of hand and power tools; arc and oxy-acetylene welding; and construction materials and principles.

Approval Number ................................................................. 01.0201.51 01
CIP Area ................................................................. Agribusiness & Agriculture Production
maximum SCH per student .................................................. 6
maximum SCH per course .................................................... 6
maximum contact hours per course .................................. 128

AGRI 2317  Introduction to Agricultural Economics
Fundamental economic principles and their applications to the problems of the industry of agriculture.

Approval Number ................................................................. 01.0103.51 01
CIP Area ................................................................. Agribusiness & Agriculture Production
maximum SCH per student .................................................. 3
maximum SCH per course .................................................... 3
maximum contact hours per course .................................. 48

AGRI 2321  Livestock Evaluation I
AGRI 2322  Livestock Evaluation II
AGRI 1121  Livestock Judging (1 SCH, single-semester course)
AGRI 2221  Livestock Evaluation (2 SCH, single-semester course)
Selection, evaluation, and classification of livestock and livestock products.

Approval Number ................................................................. 02.0201.52 01
CIP Area ................................................................. Agricultural Sciences
maximum SCH per student .................................................. 6
maximum SCH per course .................................................... 3
maximum contact hours per course .................................. 96
AGRI 2330  Wildlife Conservation & Management

Principles and practices used in the production and improvement of wildlife resources. Aesthetic, ecological, and recreational uses of public and private lands.

Approval Number ................................................................. 03.0601.51 01
CIP Area ................................................................. Renewable Natural Resources
maximum SCH per student............................................................ 3
maximum SCH per course ............................................................ 3
maximum contact hours per course ..................................................... 64

ANTH (ANTHROPOLOGY)

ANTH 2301  Physical Anthropology
ANTH 2302  Introduction to Archaeology

Overview of human origins and biocultural adaptations. Also introduces methods and theory in the excavation and interpretation of material remains of past cultures.

Approval Number ................................................................. 45.0301.51 25
CIP Area ................................................................. Social Sciences
maximum SCH per student............................................................ 3
maximum SCH per course ............................................................ 3
maximum contact hours per course ..................................................... 48

ANTH 2346  General Anthropology
(Also see HUMA 2323 World Cultures)

Study of human beings, their antecedents and related primates, and their cultural behavior and institutions. Introduces the major subfields: physical and cultural anthropology, archeology, linguistics, and ethnology. (Cross-listed as HUMA 2323)

Approval Number ................................................................. 45.0201.51 25
CIP Area ................................................................. Social Sciences
maximum SCH per student............................................................ 3
maximum SCH per course ............................................................ 3
maximum contact hours per course ..................................................... 48

ANTH 2351  Cultural Anthropology

Key concepts, methods and theory in the study of cultural diversity, social institutions, linguistics, and culture change among world peoples.

Approval Number ................................................................. 45.0201.53 25
CIP Area ................................................................. Social Sciences
maximum SCH per student............................................................ 3
maximum SCH per course ............................................................ 3
maximum contact hours per course ..................................................... 48
ANTH 2189  Academic Cooperative (1 SCH version)
ANTH 2289  Academic Cooperative (2 SCH version)
ANTH 2389  Academic Cooperative (3 SCH version)

(Also see ECON 2389, GEOG 2389, GOVT 2389, HIST 2389, PSYC 2389, SOCI 2389)

An instructional program designed to integrate on-campus study with practical hands-on experience in anthropology. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions.

Approval Number ................................................................. 45.0101.51 25
CIP Area ................................................................. Social Sciences
maximum SCH per student .......................................................... 3
maximum SCH per course ........................................................ 3
maximum contact hours per course ..................................... 112

ARCH (ARCHITECTURE)
ARCH 1301  Architectural History I
ARCH 1302  Architectural History II

Study of the history of architecture from the ancient civilizations to the present. Emphasis on the relationship of culture, geography, climate, natural resources, and materials to the methods of construction.

Approval Number ................................................................. 30.1201.51 12
CIP Area ................................................................. Multi/Interdisciplinary Studies
maximum SCH per student .......................................................... 6
maximum SCH per course ........................................................ 3
maximum contact hours per course ..................................... 48

ARCH 1303  Architectural Design I (3 SCH version)
ARCH 1403  Architectural Design I (4 SCH version)

ARCH 1304  Architectural Design II (3 SCH version)
ARCH 1404  Architectural Design II (4 SCH version)

Introduction to architectural concepts. The visual characteristics of two- and three-dimensional forms and spaces.

Approval Number ................................................................. 04.0201.54 02
CIP Area ................................................................. Architecture & Environmental Design
maximum SCH per student .......................................................... 8
maximum SCH per course ........................................................ 4
maximum contact hours per course ..................................... 144
ARCH 1205 Architectural Aesthetics (2 SCH version)
ARCH 1305 Architectural Aesthetics (3 SCH version)

Architecture as a contemporary philosophical concept. Visual experiences in the aesthetics of architecture.

Approval Number ............................................................................................... 04.0201.52 02
CIP Area ......................................................... Architecture & Environmental Design
maximum SCH per student...................................................................................................... 3
maximum SCH per course ....................................................................................................... 3
maximum contact hours per course ....................................................................................... 48

ARCH 1307 Architectural Graphics I (3 SCH version)
ARCH 1407 Architectural Graphics I (4 SCH version)

ARCH 1308 Architectural Graphics II (3 SCH version)
ARCH 1408 Architectural Graphics II (4 SCH version)

Architectural drafting techniques including orthographic and axonometric studies. Principles of shades and shadows, and perspective drawing.

Approval Number ............................................................................................... 48.0102.53 02
CIP Area ......................................................... Precision Production
maximum SCH per student...................................................................................................... 8
maximum SCH per course ....................................................................................................... 4
maximum contact hours per course ....................................................................................... 96

ARCH 1201 Introduction to Architecture (2 SCH version)
ARCH 1311 Introduction to Architecture (3 SCH version)

An introduction to the elements of the architectural profession.

Approval Number ............................................................................................... 04.0201.59 02
CIP Area ......................................................... Architecture & Environmental Design
maximum SCH per student...................................................................................................... 3
maximum SCH per course ....................................................................................................... 3
maximum contact hours per course ....................................................................................... 48

ARCH 1315 Architectural Computer Graphics

Introduction to computer graphics systems with emphasis on architectural applications.

Approval Number ............................................................................................... 48.0102.52 02
CIP Area ......................................................... Precision Production
maximum SCH per student...................................................................................................... 6
maximum SCH per course ....................................................................................................... 3
maximum contact hours per course ....................................................................................... 96
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<thead>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Notes</th>
</tr>
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<tr>
<td>ARCH 2201</td>
<td>Architectural Freehand Drawing I</td>
<td>2 SCH</td>
<td>SCH version</td>
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<tr>
<td>ARCH 2202</td>
<td>Architectural Freehand Drawing II</td>
<td>2 SCH</td>
<td>SCH version</td>
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<td>ARCH 2203</td>
<td>Architectural Freehand Drawing III</td>
<td>2 SCH</td>
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<td>ARCH 2301</td>
<td>Architectural Freehand Drawing I</td>
<td>3 SCH</td>
<td>SCH version</td>
</tr>
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<td>Architectural Freehand Drawing II</td>
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<td>SCH per course</td>
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<td>ARTS 1301</td>
<td>Art Appreciation</td>
<td>3</td>
<td>SCH per student</td>
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<td>ARTS 1303</td>
<td>Art History I</td>
<td>3</td>
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<tr>
<td>ARTS 1304</td>
<td>Art History II</td>
<td>3</td>
<td>SCH per student</td>
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</tbody>
</table>

**ARCH 2203**  
Representational drawing using various media. Emphasis on principles of light, shade, scale, proportion, line, and tonal quality.

**ARCH 2312**  
Introduction to the properties, specifications, and application of materials related to architectural structures. Emphasis on the methods of construction and the effect of design.

**ARTS 1301**  
Exploration of purposes and processes in the visual arts including evaluation of selected works.

**ARTS 1303**  
Examination of painting, sculpture, architecture, and other arts from prehistoric to present time.
ARTS 1311    Design I (2-dimensional)
ARTS 1312    Design II (3-dimensional)

Elements and principles of art using two- and three-dimensional concepts.

Approval Number ................................................................. 50.0401.53 26
CIP Area .............................................................. Visual & Performing Arts
maximum SCH per student .......................................................... 9
maximum SCH per course ........................................................... 3
maximum contact hours per course .................................................. 96

ARTS 1313    Foundations of Art (3 SCH version)
ARTS 1413    Foundations of Art (4 SCH version)

Introduction to the creative media designed to enhance artistic awareness and sensitivity through the creative and imaginative use of art materials and tools. Includes art history and culture through the exploration of a variety of art works with an emphasis on aesthetic judgment and growth.

Approval Number ................................................................. 50.0701.51 26
CIP Area .............................................................. Visual & Performing Arts
maximum SCH per student .......................................................... 4
maximum SCH per course ........................................................... 4
maximum contact hours per course .................................................. 96

ARTS 1316    Drawing I
ARTS 1317    Drawing II

Investigation of drawing media and techniques including descriptive and expressive possibilities.

Approval Number ................................................................. 50.0705.52 26
CIP Area .............................................................. Visual & Performing Arts
maximum SCH per student .......................................................... 6
maximum SCH per course ........................................................... 3
maximum contact hours per course .................................................. 96

ARTS 1320    Interior Design I
ARTS 1321    Interior Design II

Studio course in interior design. Includes instruction in professional techniques of designing the interiors of homes, offices, and industrial buildings.

Approval Number ................................................................. 50.0408.51 26
CIP Area .............................................................. Visual & Performing Arts
maximum SCH per student .......................................................... 6
maximum SCH per course ........................................................... 3
maximum contact hours per course .................................................. 96
ARTS 1325  Drawing & Painting
Drawing and painting for non-art majors.
Approval Number ........................................... 50.0708.51 26
CIP Area ........................................... Visual & Performing Arts
maximum SCH per student ........................................... 3
maximum SCH per course ........................................... 3
maximum contact hours per course ........................................... 96

ARTS 2311  Design III (may be 2-D, 3-D, color, or combinations thereof)
ARTS 2312  Design IV
Elements and principles of art using two- and three-dimensional concepts.
Approval Number ........................................... 50.0401.53 26
CIP Area ........................................... Visual & Performing Arts
maximum SCH per student ........................................... 9
maximum SCH per course ........................................... 3
maximum contact hours per course ........................................... 96

ARTS 2313  Design Communications I
ARTS 2314  Design Communications II
Communication of ideas through processes and techniques of graphic design and illustration. 
(Courses Under Review)
Approval Number ........................................... 50.0401.51 26
CIP Area ........................................... Visual & Performing Arts
maximum SCH per student ........................................... 6
maximum SCH per course ........................................... 3
maximum contact hours per course ........................................... 96

ARTS 2316  Painting I
ARTS 2317  Painting II
Exploration of ideas using painting media and techniques.
Approval Number ........................................... 50.0708.52 26
CIP Area ........................................... Visual & Performing Arts
maximum SCH per student ........................................... 6
maximum SCH per course ........................................... 3
maximum contact hours per course ........................................... 96

ARTS 2323  Life Drawing I (3rd semester drawing)
ARTS 2324  Life Drawing II (4th semester drawing)
Basic study of the human form.
Approval Number ........................................... 50.0705.53 26
CIP Area ........................................... Visual & Performing Arts
maximum SCH per student ........................................... 6
maximum SCH per course ........................................... 3
maximum contact hours per course ........................................... 144
ARTS 2326  Sculpture I
ARTS 2327  Sculpture II
Exploration of ideas using sculpture media and techniques.
Approval Number ................................................................. 50.0709.51 26
CIP Area ............................................................................ Visual & Performing Arts
maximum SCH per student............................................................ 6
maximum SCH per course ............................................................. 3
maximum contact hours per course .............................................. 96

ARTS 2331  Graphic Design I
ARTS 2332  Graphic Design II
Exploration of ideas using various printmaking processes. *(Courses Under Review)*
Approval Number ................................................................. 50.0710.51 26
CIP Area ............................................................................ Visual & Performing Arts
maximum SCH per student............................................................ 6
maximum SCH per course ............................................................. 3
maximum contact hours per course .............................................. 96

ARTS 2333  Printmaking I
ARTS 2334  Printmaking II
Exploration of ideas using various printmaking processes.
Approval Number ................................................................. 50.0710.51 26
CIP Area ............................................................................ Visual & Performing Arts
maximum SCH per student............................................................ 6
maximum SCH per course ............................................................. 3
maximum contact hours per course .............................................. 96

ARTS 2336  Fiber Arts I
ARTS 2337  Fiber Arts II
Structure and design of woven and non-woven fiber forms.
Approval Number ................................................................. 50.0712.51 26
CIP Area ............................................................................ Visual & Performing Arts
maximum SCH per student............................................................ 6
maximum SCH per course ............................................................. 3
maximum contact hours per course .............................................. 96

ARTS 2341  Art Metals I
ARTS 2342  Art Metals II
Exploration of ideas using basic techniques in jewelry and metal construction.
Approval Number ................................................................. 50.0713.51 26
CIP Area ............................................................................ Visual & Performing Arts
maximum SCH per student............................................................ 6
maximum SCH per course ............................................................. 3
maximum contact hours per course .............................................. 96
ARTS 2346  Ceramics I
ARTS 2347  Ceramics II

Exploration of ideas using basic ceramic processes.

Approval Number ................................................................. 50.0711.51 26
CIP Area ................................................................. Visual & Performing Arts
maximum SCH per student .......................................................... 6
maximum SCH per course ............................................................. 3
maximum contact hours per course ......................................................... 96

ARTS 2351  Advertising Art I
ARTS 2352  Advertising Art II

Communication of ideas through processes and techniques of graphic design and illustration.
(Courses Under Review)

Approval Number ................................................................. 50.0401.51 26
CIP Area ................................................................. Visual & Performing Arts
maximum SCH per student .......................................................... 6
maximum SCH per course ............................................................. 3
maximum contact hours per course ......................................................... 96

ARTS 2356  Photography I (fine arts emphasis)
(Also see COMM 1318 for journalism emphasis)

Introduction to the basics of photography. Includes camera operation, techniques, knowledge of chemistry, and presentation skills. Emphasis on design, history, and contemporary trends as a means of developing an understanding of photographic aesthetics. (Cross-listed, with journalism emphasis, as COMM 1318)

Approval Number ................................................................. 50.0605.51 26
CIP Area ................................................................. Visual & Performing Arts
maximum SCH per student .......................................................... 3
maximum SCH per course ............................................................. 3
maximum contact hours per course ......................................................... 96

ARTS 2357  Photography II (fine arts emphasis)
(Also see COMM 1319 for journalism emphasis)

Extends the students' knowledge of technique and guides them in developing personal outlooks toward specific applications of the photographic process. Prerequisite: Photography I or its equivalent. (Cross-listed, with journalism emphasis, as COMM 1319)

Approval Number ................................................................. 50.0605.52 26
CIP Area ................................................................. Visual & Performing Arts
maximum SCH per student .......................................................... 3
maximum SCH per course ............................................................. 3
maximum contact hours per course ......................................................... 96
ARTS 2366  Watercolor I
ARTS 2367  Watercolor II

Exploration of ideas using water-based painting media and techniques.

Approval Number ............................................................................................... 50.0708.53 26
CIP Area ................................................................. Visual & Performing Arts
maximum SCH per student.................................................................................... 6
maximum SCH per course .................................................................................. 3
maximum contact hours per course ................................................................. 96

ARTS 2189  Academic Cooperative (1 SCH version)
ARTS 2289  Academic Cooperative (2 SCH version)
ARTS 2389  Academic Cooperative (3 SCH version)

An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of studio art and/or art history.

Approval Number ............................................................................................... 24.0103.52 12
CIP Area ................................................................. Interdisciplinary
maximum SCH per student.................................................................................... 3
maximum SCH per course .................................................................................. 3
maximum contact hours per course ................................................................. 112

BCIS (BUSINESS COMPUTER INFORMATION SYSTEMS)
(Refer to COSC for computer science programming courses.)

BCIS 1301  Microcomputer Applications (3 SCH version)
BCIS 1401  Microcomputer Applications (4 SCH version)
(Also see COSC 1301 & 1401)

Introduction to business programming techniques. Includes structured programming methods, designing customized software applications, testing documentation, input specification, and report generation.  (Cross-listed as COSC 1301 & 1401)

Approval Number ............................................................................................... 52.1202.52 04
CIP Area ................................................................. Business, Management, & Administrative Support
maximum SCH per student.................................................................................... 12
maximum SCH per course .................................................................................. 4
maximum contact hours per course ................................................................. 96
BCIS 1305  Business Computer Applications (3 SCH version)
BCIS 1405  Business Computer Applications (4 SCH version)

Computer terminology, hardware, software, operating systems, and information systems relating to the business environment. The main focus of this course is on business applications of software, including word processing, spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet.

Approval Number .............................................................................................. 52.1202.54.04
CIP Area ..........................................................Business, Management, & Administrative Support
maximum SCH per student.................................................................................................... 12
maximum SCH per course ....................................................................................................... 4
maximum contact hours per course ....................................................................................... 96

BCIS 1310  BASIC Programming
BCIS 1311  FORTRAN Programming
BCIS 1312  PASCAL Programming

Course designed to teach software theory and structured programming methods used to solve business data problems. Includes discussion of business applications, testing, documentation, input specification, and report generation.

Approval Number ............................................................................................... 52.1202.51.04
CIP Area ..........................................................Business, Management, & Administrative Support
maximum SCH per student.................................................................................................... 3
maximum SCH per course ....................................................................................................... 3
maximum contact hours per course ....................................................................................... 80

BCIS 1316  Computer Programming-BASIC (3 SCH version)
BCIS 1416  Computer Programming-BASIC (4 SCH version)

Introduction to business programming techniques. Includes structured programming methods, designing customized software applications, testing documentation, input specification, and report generation.

Approval Number ............................................................................................... 52.1202.52.04
CIP Area ..........................................................Business, Management, & Administrative Support
maximum SCH per student.................................................................................................... 12
maximum SCH per course ....................................................................................................... 4
maximum contact hours per course ....................................................................................... 96
BCIS 1320  Introductory C Programming (3 SCH version) 
BCIS 1420  Introductory C Programming (4 SCH version) 
(Also see COSC 1320 & 1420)

Introduction to business programming techniques. Includes structured programming methods, designing customized software applications, testing documentation, input specification, and report generation. *(Cross-listed as COSC 1320 & 1420)*

Approval Number .......................................................... 52.1202.52 04
CIP Area ................................................................. Business, Management, & Administrative Support
maximum SCH per student.......................................................... 12
maximum SCH per course .......................................................... 4
maximum contact hours per course .................................................. 96

BCIS 1331  Programming in BASIC I (3 SCH version) 
BCIS 1431  Programming in BASIC I (4 SCH version)

Introduction to business programming techniques. Includes structured programming methods, designing customized software applications, testing documentation, input specification, and report generation.

Approval Number .......................................................... 52.1202.52 04
CIP Area ................................................................. Business, Management, & Administrative Support
maximum SCH per student.......................................................... 12
maximum SCH per course .......................................................... 4
maximum contact hours per course .................................................. 96

BCIS 1332  COBOL Programming I (3 SCH version) 
BCIS 1432  COBOL Programming I (4 SCH version)

Introduction to business programming techniques. Includes structured programming methods, designing customized software applications, testing documentation, input specification, and report generation.

Approval Number .......................................................... 52.1202.52 04
CIP Area ................................................................. Business, Management, & Administrative Support
maximum SCH per student.......................................................... 12
maximum SCH per course .......................................................... 4
maximum contact hours per course .................................................. 96

BCIS 2316  Advanced Structured Programming Techniques BASIC (3 SCH version) 
BCIS 2416  Advanced Structured Programming Techniques BASIC (4 SCH version)

Further applications of business programming techniques. Advanced topics may include varied file access techniques, system profiles and security, control language programming, data validation program design and testing, and other topics not normally covered in an introductory information systems programming course.

Approval Number .......................................................... 52.1202.53 04
CIP Area ................................................................. Business, Management, & Administrative Support
maximum SCH per student.......................................................... 8
maximum SCH per course .......................................................... 4
maximum contact hours per course .................................................. 96
BCIS 2320  Advanced C Programming (3 SCH version)  
BCIS 2420  Advanced C Programming (4 SCH version)  
(Also see COSC 2320 & 2420)  
Further applications of business programming techniques. Advanced topics may include varied file access techniques, system profiles and security, control language programming, data validation program design and testing, and other topics not normally covered in an introductory information systems programming course. (Cross-listed as COSC 2320 & 2420)  
Approval Number ................................................................. 52.1202.53 04  
CIP Area ............................................................Business, Management, & Administrative Support  
maximum SCH per student .......................................................... 8  
maximum SCH per course ........................................................... 4  
maximum contact hours per course ................................................. 96  

BCIS 2331  Advanced Programming BASIC (3 SCH version)  
BCIS 2431  Advanced Programming BASIC (4 SCH version)  
Further applications of business programming techniques. Advanced topics may include varied file access techniques, system profiles and security, control language programming, data validation program design and testing, and other topics not normally covered in an introductory information systems programming course.  
Approval Number ................................................................. 52.1202.53 04  
CIP Area ............................................................Business, Management, & Administrative Support  
maximum SCH per student .......................................................... 8  
maximum SCH per course ........................................................... 4  
maximum contact hours per course ................................................. 96  

BCIS 2332  Advanced Programming COBOL (3 SCH version)  
BCIS 2432  Advanced Programming COBOL (4 SCH version)  
Further applications of business programming techniques. Advanced topics may include varied file access techniques, system profiles and security, control language programming, data validation program design and testing, and other topics not normally covered in an introductory information systems programming course.  
Approval Number ................................................................. 52.1202.53 04  
CIP Area ............................................................Business, Management, & Administrative Support  
maximum SCH per student .......................................................... 8  
maximum SCH per course ........................................................... 4  
maximum contact hours per course ................................................. 96
BCIS 2390  Systems Analysis & Design

Analysis of business information needs and preparation of specifications and requirements for appropriate data system solutions. Includes instruction in information requirements analysis, specification development and writing, prototype evaluation, and network application interfaces.

Approval Number ................................................................. 52.1203.51 04
CIP Area .........................................................Business, Management, & Administrative Support
maximum SCH per student......................................................... 3
maximum SCH per course ........................................................... 3
maximum contact hours per course ........................................... 80

BIOL (BIOLOGY)

BIOL 1406  General Biology I (lecture + lab, for Biology majors)
BIOL 1306  General Biology I (lecture, for Biology majors)
BIOL 1106  General Biology Laboratory I (lab, for Biology majors)

BIOL 1407  General Biology II (lecture + lab, for Biology majors)
BIOL 1307  General Biology II (lecture, for Biology majors)
BIOL 1107  General Biology Laboratory II (lab, for Biology majors)

Fundamental principles of living organisms including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of reproduction, genetics, ecology, and the scientific method are included.

Approval Number ................................................................. 26.0101.51 03
CIP Area .................................................................Life Sciences
maximum SCH per student......................................................... 8
maximum SCH per course ........................................................... 4
maximum contact hours per course ........................................... 96

BIOL 1408  General Biology I (lecture + lab, for non-majors)
BIOL 1308  General Biology I (lecture, for non-majors)
BIOL 1108  General Biology Laboratory I (lab, for non-majors)

BIOL 1409  General Biology II (lecture + lab, for non-majors)
BIOL 1309  General Biology II (lecture, for non-majors)
BIOL 1109  General Biology Laboratory II (lab, for non-majors)

Fundamental principles of living organisms including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of reproduction, genetics, ecology, and the scientific method are included.

Approval Number ................................................................. 26.0101.51 03
CIP Area .................................................................Life Sciences
maximum SCH per student......................................................... 8
maximum SCH per course ........................................................... 4
maximum contact hours per course ........................................... 96
BIOL 1411  General Botany  (lecture + lab)
BIOL 1311  General Botany  (lecture)
BIOL 1111  General Botany  (lab)
Study of structure and function of plant cells, tissues, and organs. Includes an evolutionary
survey and life histories of the following representative groups: algae, fungi, mosses,
liverworts, ferns, and seed producing organisms. Plant reproductive and functional
interactions with their environment and with humans. Selected laboratory exercises.

Approval Number ............................................................................................... 26.0301.51 03
CIP Area ...............................................................................................................Life Sciences
maximum SCH per student .............................................................................. 4
maximum SCH per course ............................................................................... 4
maximum contact hours per course ............................................................... 112

BIOL 1413  General Zoology  (lecture + lab)
BIOL 1313  General Zoology  (lecture)
BIOL 1113  General Zoology  (lab)
Study of the principles of taxonomy, molecular biology, and ecology as they relate to animal
form and function, diversity, behavior, and evolution.

Approval Number ............................................................................................... 26.0701.51 03
CIP Area ...............................................................................................................Life Sciences
maximum SCH per student .............................................................................. 4
maximum SCH per course ............................................................................... 4
maximum contact hours per course ............................................................... 112

BIOL 1322  Nutrition & Diet Therapy I  (may also be single-semester course)
BIOL 1323  Nutrition & Diet Therapy II  (2nd of 2 semesters)
(Also see HECO 1322 & 1323)
Study of the chemical, physical, and sensory properties of food; nutritional quality; and food
use and diet applications.  (Cross-listed as HECO 1322 & 1323)

Approval Number ............................................................................................... 19.0502.51 09
CIP Area ........................................................................................................ Home Economics
maximum SCH per student .............................................................................. 6
maximum SCH per course ............................................................................... 3
maximum contact hours per course ............................................................... 48

BIOL 1424  Systematic Botany  (lecture + lab)
BIOL 1324  Systematic Botany  (lecture)
BIOL 1124  Systematic Botany  (lab)
Introduction to the identification, classification, and evolutionary relationships of vascular
plants with emphasis on flowering plants. Includes the importance of herbaria, collection
techniques, and the construction and use of taxonomic keys.

Approval Number ............................................................................................... 26.0301.52 03
CIP Area ...............................................................................................................Life Sciences
maximum SCH per student .............................................................................. 4
maximum SCH per course ............................................................................... 4
maximum contact hours per course ............................................................... 112
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<th>Offered As</th>
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<tr>
<td>BIOL 2401</td>
<td>Anatomy &amp; Physiology I (lecture + lab)</td>
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<tr>
<td>BIOL 2301</td>
<td>Anatomy &amp; Physiology I (lecture)</td>
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<tr>
<td>BIOL 2101</td>
<td>Anatomy &amp; Physiology Laboratory I (lab)</td>
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<td>Anatomy &amp; Physiology II (lecture + lab)</td>
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<td>BIOL 2302</td>
<td>Anatomy &amp; Physiology II (lecture)</td>
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<td>BIOL 2102</td>
<td>Anatomy &amp; Physiology II (lab)</td>
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<td>BIOL 2304</td>
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<td>BIOL 2305</td>
<td>Anatomy &amp; Physiology II (specialized, lecture only)</td>
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<tr>
<td>BIOL 2404</td>
<td>Anatomy &amp; Physiology (specialized, single-semester course, lecture + lab)</td>
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Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized.

Approval Number ............................................................................................... 26.0706.51 03
CIP Area ...............................................................................................................Life Sciences
maximum SCH per student.................................................................................................... 12
maximum SCH per course....................................................................................................... 4
maximum contact hours per course ..................................................................................... 112

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<td>BIOL 2406</td>
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<td>BIOL 2306</td>
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<td>BIOL 2106</td>
<td>Environmental Biology (lab)</td>
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Human interaction with and effect upon plant and animal communities. Conservation, pollution, energy, and other contemporary ecological problems.

Approval Number ............................................................................................... 03.0102.51 01
CIP Area ...............................................................................................................Renewable Natural Resources
maximum SCH per student.................................................................................................... 12
maximum SCH per course....................................................................................................... 4
maximum contact hours per course ..................................................................................... 112

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<tr>
<td>BIOL 2316</td>
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<td>BIOL 2116</td>
<td>Genetics (lab)</td>
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Study of the principles of molecular and classical genetics and the function and transmission of hereditary material. May include population genetics and genetic engineering.

Approval Number ............................................................................................... 26.0613.51 03
CIP Area ...............................................................................................................Life Sciences
maximum SCH per student.................................................................................................... 12
maximum SCH per course....................................................................................................... 4
maximum contact hours per student ..................................................................................... 112
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<tr>
<td>BIOL 2420</td>
<td>Microbiology (lecture + lab, for non-majors)</td>
<td>Study of the morphology, physiology, and taxonomy of representative groups of pathogenic and nonpathogenic microorganisms. Pure cultures of microorganisms grown on selected media are used in learning laboratory techniques. Includes a brief preview of food microbes, public health, and immunology.</td>
<td>26.0501.51 03</td>
<td>Life Sciences</td>
<td>4</td>
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<tr>
<td>BIOL 2120</td>
<td>Microbiology Laboratory (lab, for non-majors)</td>
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<tr>
<td>BIOL 2421</td>
<td>Microbiology (lecture + lab, for Biology/Microbiology majors)</td>
<td>Study of the morphology, physiology, and taxonomy of representative groups of pathogenic and nonpathogenic microorganisms. Pure cultures of microorganisms grown on selected media are used in learning laboratory techniques. Includes a brief preview of food microbes, public health, and immunology.</td>
<td>26.0501.51 03</td>
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<tr>
<td>BIOL 2321</td>
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<td>BIOL 2121</td>
<td>Microbiology Laboratory (lab, for Biology/Microbiology majors)</td>
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<tr>
<td>BIOL 2428</td>
<td>Vertebrate Zoology (lecture + lab)</td>
<td>Structure, development, physiology, and natural history of the vertebrate animals with emphasis on comparative evolution.</td>
<td>26.0701.53 03</td>
<td>Life Sciences</td>
<td>4</td>
<td>4</td>
<td>112</td>
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</table>
### BIOL (BIOLOGY)

**BIOL 2189**  Academic Cooperative *(1 SCH version)*

An instructional program designed to integrate on-campus study with practical hands-on work experience in the biological sciences/life sciences. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of living organisms and their systems.

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<tbody>
<tr>
<td>CIP Area</td>
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<td>maximum contact hours per course</td>
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**BIOL 2289**  Academic Cooperative *(2 SCH version)*

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<td>maximum SCH per course</td>
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<td>maximum contact hours per course</td>
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**BIOL 2389**  Academic Cooperative *(3 SCH version)*

<table>
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<td>CIP Area</td>
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<td>maximum contact hours per course</td>
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### BUSI (BUSINESS)

**BUSI 1301**  Business Principles

Introduction to the role of business in modern society. Includes overview of business operations, analysis of the specialized fields within the business organization, and development of a business vocabulary.

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<th>Approval Number</th>
<th>52.0101.51 04</th>
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<tbody>
<tr>
<td>CIP Area</td>
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<td>maximum contact hours per course</td>
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</table>

**BUSI 1304**  Business Report Writing & Correspondence *(freshman level version)*

<table>
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<th>Approval Number</th>
<th>23.1101.52 12</th>
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<tr>
<td>CIP Area</td>
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<td>maximum SCH per course</td>
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<td>maximum contact hours per course</td>
<td>48</td>
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</table>

**BUSI 2304**  Business Report Writing & Correspondence *( sophomore level version)*

Theory and applications for technical reports and correspondence in business.

<table>
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<tbody>
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<td>CIP Area</td>
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<td>maximum SCH per course</td>
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<tr>
<td>maximum contact hours per course</td>
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**BUSI 1307**  Personal Finance

Personal and family accounts, budgets and budgetary control, bank accounts, charge accounts, borrowing, investing, insurance, standards of living, renting or home ownership, and wills and trust plans.

<table>
<thead>
<tr>
<th>Approval Number</th>
<th>19.0401.51 09</th>
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<tbody>
<tr>
<td>CIP Area</td>
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<td>maximum SCH per student</td>
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<tr>
<td>maximum contact hours per course</td>
<td>48</td>
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</table>
BUSI 1311 Salesmanship

Principles of personal salesmanship including methods and tasks applicable to a wide variety of industries and commercial settings.

Approval Number ................................................................. 08.0706.51 04
CIP Area ................................................................. Marketing & Distribution
maximum SCH per student ................................................................. 3
maximum SCH per course ................................................................. 3
maximum contact hours per course ......................................................... 48

BUSI 2301 Business Law (1st semester Business Law)

Principles of law which form the legal framework for business activity.

Approval Number ................................................................. 22.0101.51 24
CIP Area ................................................................. Law
maximum SCH per student ................................................................. 3
maximum SCH per course ................................................................. 3
maximum contact hours per course ......................................................... 48

BUSI 2302 Legal Environment of Business (2nd semester Business Law)

Role of law and government regulations in business and society. Includes legal reasoning, sources of law, social policy and legal institutions, and laws relating to antitrust protection, security regulations, consumer protection, environmental protection, worker health and safety, and employment discrimination.

Approval Number ................................................................. 22.0101.52 24
CIP Area ................................................................. Law
maximum SCH per student ................................................................. 3
maximum SCH per course ................................................................. 3
maximum contact hours per course ......................................................... 48
CHEM (CHEMISTRY)

CHEM 1405 Introductory Chemistry I (lecture + lab)
CHEM 1305 Introductory Chemistry I (lecture)
CHEM 1105 Introductory Chemistry Laboratory I (lab)

CHEM 1407 Introductory Chemistry II (lecture + lab)
CHEM 1307 Introductory Chemistry II (lecture)
CHEM 1107 Introductory Chemistry Laboratory II (lab)

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1408 Introductory Chemistry II (lecture + lab, allied health emphasis)

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students.

Approval Number ................................................................. 40.0501.51 03
CIP Area ................................................................. Physical Sciences
maximum SCH per student ................................................................. 8
maximum SCH per course ................................................................. 4
maximum contact hours per course ............................................. 112

CHEM 1411 General Chemistry I (lecture + lab)
CHEM 1311 General Chemistry I (lecture)
CHEM 1111 General Chemistry I (lab)

CHEM 1412 General Chemistry II (lecture + lab)
CHEM 1312 General Chemistry II (lecture)
CHEM 1112 General Chemistry II (lab)

CHEM 1413 General Chemistry I (lecture + lab, allied health emphasis)
CHEM 1414 General Chemistry II (lecture + lab, allied health emphasis)

General principles, problems, fundamental laws, and theories. Course content provides a foundation for work in advanced chemistry and related sciences.

Approval Number ................................................................. 40.0501.52 03
CIP Area ................................................................. Physical Sciences
maximum SCH per student ................................................................. 8
maximum SCH per course ................................................................. 4
maximum contact hours per course ............................................. 112
CHEM 2401  Analytical Chemistry I *(lecture + lab)*
CHEM 2301  Analytical Chemistry I *(lecture)*
CHEM 2101  Analytical Chemistry Laboratory I *(lab)*

CHEM 2402  Analytical Chemistry II *(lecture + lab)*
CHEM 2302  Analytical Chemistry II *(lecture)*
CHEM 2102  Analytical Chemistry Laboratory II *(lab)*

Principles and methods of quantitative chemical analysis dealing primarily with volumetric and gravimetric analysis and containing a brief introduction to physical methods.

Approval Number ................................................................. 40.0502.51 03
CIP Area ................................................................. Physical Sciences
maximum SCH per student ............................................................. 8
maximum SCH per course ............................................................ 4
maximum contact hours per course ............................................ 128

CHEM 1104  Chemical Calculations *(1 SCH version)*
CHEM 1204  Chemical Calculations *(2 SCH version)*

Study of the mathematical applications used in chemistry. Designed for science and engineering students.

Approval Number ................................................................. 40.0502.52 03
CIP Area ................................................................. Physical Sciences
maximum SCH per student ............................................................. 2
maximum SCH per course ............................................................ 2
maximum contact hours per course ............................................ 48

CHEM 1419  Introductory Organic Chemistry I
CHEM 1420  Introductory Organic Chemistry II

Survey course introducing organic chemistry. Not designed for students in science or pre-professional programs.

Approval Number ................................................................. 40.0504.51 03
CIP Area ................................................................. Physical Sciences
maximum SCH per student ............................................................. 8
maximum SCH per course ............................................................ 4
maximum contact hours per course ............................................ 112
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<td>CHEM 2323</td>
<td>Organic Chemistry I (lecture)</td>
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<tr>
<td>CHEM 2125</td>
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Study of the properties and behavior of hydrocarbon compounds and their derivatives.
Designed for students in science or pre-professional programs.

Approval Number ............................................................................................... 40.0504.52 03
CIP Area ........................................................................................................ Physical Sciences
maximum SCH per student.................................................................................................... 10
maximum SCH per course................................................................................................. 5
maximum contact hours per course .................................................................................. 128

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<td>CHEM 2289</td>
<td>Academic Cooperative (2 SCH version)</td>
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<tr>
<td>CHEM 2389</td>
<td>Academic Cooperative (3 SCH version)</td>
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</table>

An instructional program designed to integrate on-campus study with practical hands-on work experience in the physical sciences. In conjunction with class seminars, the individual students will set specific goals and objectives in the scientific study of inanimate objects, processes of matter and energy, and associated phenomena.

Approval Number ............................................................................................... 40.0101.53 03
CIP Area ........................................................................................................ Physical Sciences
maximum SCH per student.................................................................................................... 3
maximum SCH per course................................................................................................. 3
maximum contact hours per course .................................................................................. 112

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<td>Beginning Chinese I (1st semester Chinese, 4 SCH version)</td>
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<td>CHIN 1511</td>
<td>Beginning Chinese I (1st semester Chinese, 5 SCH version)</td>
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<tr>
<td>CHIN 1312</td>
<td>Beginning Chinese II (2nd semester Chinese, 3 SCH version)</td>
</tr>
<tr>
<td>CHIN 1412</td>
<td>Beginning Chinese II (2nd semester Chinese, 4 SCH version)</td>
</tr>
<tr>
<td>CHIN 1512</td>
<td>Beginning Chinese II (2nd semester Chinese, 5 SCH version)</td>
</tr>
</tbody>
</table>

Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

Approval Number ............................................................................................... 16.0301.51 13
CIP Area ........................................................................................................ Foreign Languages
maximum SCH per student.................................................................................................... 10
maximum SCH per course................................................................................................. 5
maximum contact hours per course .................................................................................. 112
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CHIN 2311</td>
<td>Intermediate Chinese I (3rd semester Chinese)</td>
</tr>
<tr>
<td>CHIN 2312</td>
<td>Intermediate Chinese II (4th semester Chinese)</td>
</tr>
</tbody>
</table>

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture.

Approval Number: 16.0301.52 13
CIP Area: Foreign Languages
Maximum SCH per student: 6
Maximum SCH per course: 3
Maximum contact hours per course: 80

COMM (COMMUNICATION)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1307</td>
<td>Introduction to Mass Communication</td>
</tr>
</tbody>
</table>

Study of the media by which entertainment and information messages are delivered. Includes an overview of the traditional mass media: their functions, structures, supports, and influences.

Approval Number: 09.0403.51 06
CIP Area: Communication
Maximum SCH per student: 3
Maximum SCH per course: 3
Maximum contact hours per course: 48

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1316</td>
<td>News Photography I</td>
</tr>
<tr>
<td>COMM 1317</td>
<td>News Photography II</td>
</tr>
</tbody>
</table>

Problems and practices of photography for newspapers. Includes instruction in camera and equipment operation and maintenance, film and plate developing, and printing media.

Approval Number: 09.0401.55 06
CIP Area: Communication
Maximum SCH per student: 6
Maximum SCH per course: 3
Maximum contact hours per course: 96

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1318</td>
<td>Photography I (1st semester, journalism emphasis)</td>
</tr>
</tbody>
</table>

(Also see ARTS 2356 for fine arts emphasis)

Introduction to the basics of photography. Includes camera operation, techniques, knowledge of chemistry, and presentation skills. Emphasis on design, history, and contemporary trends as a means of developing an understanding of photographic aesthetics. (Cross-listed, with fine arts emphasis, as ARTS 2356)

Approval Number: 50.0605.51 26
CIP Area: Visual & Performing Arts
Maximum SCH per student: 3
Maximum SCH per course: 3
Maximum contact hours per course: 96
COMM 1319  Photography II (2nd semester, journalism emphasis)
(Also see ARTS 2357 for fine arts emphasis)

Extends the students' knowledge of technique and guides them in developing personal outlooks toward specific applications of the photographic process. Prerequisite: Photography I or its equivalent.  (*Cross-listed, with fine arts emphasis, as ARTS 2357*)

Approval Number ................................................................. 50.0605.52 26
CIP Area ........................................................................................ Visual & Performing Arts
maximum SCH per student.......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course .......................................... 96

COMM 1129  News Publications I
COMM 1130  News Publications II
COMM 2129  News Publications III
COMM 2130  News Publications IV

COMM 1131  Other Publications I
COMM 1132  Other Publications II
COMM 2131  Other Publications III
COMM 2132  Other Publications IV

Work on the staff of one of the college publications. Students are required to work on the staff of at least one of the official college publications for prescribed periods under faculty supervision.

Approval Number ................................................................. 09.0401.54 06
CIP Area ........................................................................................ Communication
maximum SCH per student.......................................................... 4
maximum SCH per course .......................................................... 1
maximum contact hours per course .......................................... 80

COMM 1335  Survey of Radio/Television

Study of the development, regulation, economics, social impact, and industry practices in broadcasting and cable communication. Includes non-broadcast television, new technologies, and other communication systems.

Approval Number ................................................................. 09.0403.52 06
CIP Area ........................................................................................ Communication
maximum SCH per student.......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course .......................................... 48
COMM 1136  Television Production I (1 SCH version)
COMM 1236  Television Production I (2 SCH version)
COMM 1336  Television Production I (3 SCH version)

COMM 1137  Television Production II (1 SCH version)
COMM 1237  Television Production II (2 SCH version)
COMM 1337  Television Production II (3 SCH version)

COMM 1138  Television Production III (1 SCH version)
COMM 1238  Television Production III (2 SCH version)

Practical experience in the operation of television studio and control room equipment, including both pre- and post-production needs.

Approval Number ............................................................... 10.0104.52 06
CIP Area ................................................................. Communication Technologies
maximum SCH per student ........................................... 6
maximum SCH per course ............................................. 3
maximum contact hours per course .............................. 96

COMM 2303  Audio/Radio Production

Concepts and techniques of sound production, including the coordinating and directing processes. Hands-on experience with equipment, sound sources, and direction of talent.

Approval Number ............................................................... 10.0104.51 06
CIP Area ................................................................. Communication Technologies
maximum SCH per student ........................................... 3
maximum SCH per course ............................................. 3
maximum contact hours per course .............................. 64

COMM 2305  Editing & Layout

Editing and layout processes, with emphasis on accuracy and fairness, including the principles and techniques of design.

Approval Number ............................................................... 09.0401.51 06
CIP Area ................................................................. Communication
maximum SCH per student ........................................... 4
maximum SCH per course ............................................. 3
maximum contact hours per course .............................. 96
COMM 2209  News Editing & Copy Reading I (2 SCH version)
COMM 2309  News Editing & Copy Reading I (3 SCH version)

COMM 2210  News Editing & Copy Reading II (2 SCH version)
COMM 2310  News Editing & Copy Reading II (3 SCH version)

Copy editing for errors of fact and interpretation of English. Includes newspaper style, headline writing, proofreading, and page makeup.

Approval Number ................................................................. 09.0401.53 06
CIP Area .............................................................. Communication
maximum SCH per student ........................................................... 6
maximum SCH per course ........................................................... 3
maximum contact hours per course ................................................ 96

COMM 2311  News Gathering & Writing I

Fundamentals of writing news for the mass media. Includes instruction in methods and techniques for gathering, processing, and delivering news in a professional manner.

Approval Number ................................................................. 09.0401.57 06
CIP Area .............................................................. Communication
maximum SCH per student ........................................................... 3
maximum SCH per course ........................................................... 3
maximum contact hours per course ................................................ 96

COMM 2315  News Gathering & Writing II

Continuation of the aims and objectives of news gathering and writing with emphasis on advanced reporting techniques.

Approval Number ................................................................. 09.0401.58 06
CIP Area .............................................................. Communication
maximum SCH per student ........................................................... 3
maximum SCH per course ........................................................... 3
maximum contact hours per course ................................................ 96

COMM 2120  Practicum in Electronic Media (1 SCH version)
COMM 2121  Practicum in Electronic Media (1 SCH version)
COMM 2122  Practicum in Electronic Media (1 SCH version)

COMM 2220  Practicum in Electronic Media (2 SCH version)

COMM 2324  Practicum in Electronic Media (3 SCH version)
COMM 2325  Practicum in Electronic Media (3 SCH version)
COMM 2326  Practicum in Electronic Media (3 SCH version)

Lecture and laboratory instruction and participation.

Approval Number ................................................................. 09.0701.53 06
CIP Area .............................................................. Communication
maximum SCH per student ........................................................... 12
maximum SCH per course ............................................................ 4
maximum contact hours per course ................................................ 96
COMM 2327  Principles of Advertising

Fundamentals of advertising including marketing theory and strategy, copy writing, design, and selection of media.

Approval Number ................................................................. 09.0201.51 06
CIP Area ....................................................................................... Communication
maximum SCH per student................................................................. 3
maximum SCH per course ............................................................... 3
maximum contact hours per course .................................................. 48

COMM 2331  Radio/Television Announcing

Principles of announcing; study of voice, diction, pronunciation, and delivery. Experience in various types of announcing. Study of phonetics is recommended.

Approval Number ................................................................. 09.0701.54 06
CIP Area ....................................................................................... Communication
maximum SCH per student................................................................. 3
maximum SCH per course ............................................................... 3
maximum contact hours per course .................................................. 48

COMM 2332  Radio/Television News

Preparation and analysis of news styles for the electronic media.

Approval Number ................................................................. 09.0402.52 06
CIP Area ....................................................................................... Communication
maximum SCH per student................................................................. 3
maximum SCH per course ............................................................... 3
maximum contact hours per course .................................................. 96

COMM 2339  Writing for Radio, Television, & Film

Introduction to basic script formats, terminology, and writing techniques, including the writing of commercials, public service announcements, promotions, news, documentary, and fictional materials.

Approval Number ................................................................. 09.0402.51 06
CIP Area ....................................................................................... Communication
maximum SCH per student................................................................. 3
maximum SCH per course ............................................................... 3
maximum contact hours per course .................................................. 48
COMM 2189  Academic Cooperative (1 SCH version)
COMM 2289  Academic Cooperative (2 SCH version)
COMM 2389  Academic Cooperative (3 SCH version)

An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of communication.

Approval Number .......................................................... 24.0103.52 12
CIP Area .......................................................... Interdisciplinary
maximum SCH per student.......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course .................................................. 112

COSC (COMPUTER SCIENCE)
(Refer to BCIS for business-oriented programming courses.)

COSC 1300  Introduction to Computing (3 SCH version)
COSC 1400  Introduction to Computing (4 SCH version)

Effect of computers on society, the history and use of computers, computer applications in various segments of society, programming concepts, and hardware and software terminology. This course may not be applied towards a computer science major or minor.

Approval Number .......................................................... 11.0101.51 07
CIP Area .......................................................... Computer & Information Sciences
maximum SCH per student.......................................................... 4
maximum SCH per course .......................................................... 4
maximum contact hours per course .................................................. 96

COSC 1301  Microcomputer Applications (3 SCH version)
COSC 1401  Microcomputer Applications (4 SCH version)

Overview of computer information systems. Introduces computer hardware, software, procedures, systems, and human resources and explores their integration and application in business and other segments in society. The fundamentals of computer problem solving and programming in a higher level programming language may be discussed and applied. (Cross-listed as BCIS 1301 and 1401)

Approval Number .......................................................... 11.0101.52 07
CIP Area .......................................................... Computer & Information Sciences
maximum SCH per student.......................................................... 6
maximum SCH per course .......................................................... 4
maximum contact hours per course .................................................. 96
COSC 1309  Logic Design

A discipline approach to problem solving with structured techniques and representation of algorithms using pseudo code and graphical tools. Discussion of methods for testing, evaluation, and documentation.

Approval Number ............................................................................................... 11.0201.51 07
CIP Area .......................................................... Computer & Information Sciences
maximum SCH per student .............................................................................. 3
maximum SCH per course ................................................................................ 3
maximum contact hours per course ................................................................. 80

COSC 1315  Fundamentals of Programming (3 SCH version)
COSC 1415  Fundamentals of Programming (4 SCH version)

Introduction to computer programming. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files.

Approval Number ............................................................................................... 11.0201.52 07
CIP Area .......................................................... Computer & Information Sciences
maximum SCH per student .............................................................................. 12
maximum SCH per course ................................................................................ 4
maximum contact hours per course ................................................................. 96

COSC 1317  FORTRAN Programming I (3 SCH version)
COSC 1417  FORTRAN Programming I (4 SCH version)

Introduction to computer programming in the FORTRAN programming language. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files.

Approval Number ............................................................................................... 11.0201.52 07
CIP Area .......................................................... Computer & Information Sciences
maximum SCH per student .............................................................................. 12
maximum SCH per course ................................................................................ 4
maximum contact hours per course ................................................................. 96

COSC 1318  PASCAL Programming I (3 SCH freshman version)
COSC 1418  PASCAL Programming I (4 SCH freshman version)
COSC 1335  PASCAL Programming I (3 SCH sophomore version)
COSC 1435  PASCAL Programming I (4 SCH sophomore version)

Introduction to computer programming in the PASCAL programming language. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files.

Approval Number ............................................................................................... 11.0201.52 07
CIP Area .......................................................... Computer & Information Sciences
maximum SCH per student .............................................................................. 12
maximum SCH per course ................................................................................ 4
maximum contact hours per course ................................................................. 96
COSC 1319  Assembly Language Programming I (3 SCH freshman version)
COSC 1419  Assembly Language Programming I (4 SCH freshman version)
COSC 1334  Assembly Language Programming I (3 SCH sophomore version)
COSC 1434  Assembly Language Programming I (4 SCH sophomore version)

Introduction to Assembly Language computer programming. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files.

Approval Number ............................................................................................... 11.0201.52 07
CIP Area ........................................................................................................... Computer & Information Sciences
maximum SCH per student .................................................................................. 12
maximum SCH per course .................................................................................... 4
maximum contact hours per course .................................................................... 96

COSC 1320  “C” Programming I (3 SCH version)
COSC 1420  “C” Programming I (4 SCH version)
(Also see BCIS 1320 or 1420)

Introduction to computer programming in the “C” programming language. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files. (Cross-listed as BCIS 1320 or 1420)

Approval Number ............................................................................................... 11.0201.52 07
CIP Area ........................................................................................................... Computer & Information Sciences
maximum SCH per student .................................................................................. 12
maximum SCH per course .................................................................................... 4
maximum contact hours per course .................................................................... 96

COSC 1330  Computer Programming (3 SCH version)
COSC 1430  Computer Programming (4 SCH version)

Introduction to computer programming in various programming languages. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files.

Approval Number ............................................................................................... 11.0201.52 07
CIP Area ........................................................................................................... Computer & Information Sciences
maximum SCH per student .................................................................................. 12
maximum SCH per course .................................................................................... 4
maximum contact hours per course .................................................................... 96
COSC 1333  PL/1 Programming I (3 SCH version)
COSC 1433  PL/1 Programming I (4 SCH version)
Introduction to computer programming in the PL/1 programming language. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files.

Approval Number ................................................. 11.0201.52 07
CIP Area .................................................. Computer & Information Sciences
maximum SCH per student .......................................................... 12
maximum SCH per course ............................................................ 4
maximum contact hours per course ..............................................

COSC 2315  Data Structures (3 SCH version)
COSC 2415  Data Structures (4 SCH version)
Further applications of programming techniques. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course.

Approval Number ................................................. 11.0201.53 07
CIP Area .................................................. Computer & Information Sciences
maximum SCH per student .......................................................... 8
maximum SCH per course ............................................................ 4
maximum contact hours per course ..............................................

COSC 2317  FORTRAN Programming II (3 SCH version)
COSC 2417  FORTRAN Programming II (4 SCH version)
Further applications of programming techniques in the FORTRAN programming language. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course.

Approval Number ................................................. 11.0201.53 07
CIP Area .................................................. Computer & Information Sciences
maximum SCH per student .......................................................... 8
maximum SCH per course ............................................................ 4
maximum contact hours per course ..............................................

COSC 2318  PASCAL Programming II (3 SCH version)
COSC 2418  PASCAL Programming II (4 SCH version)
Further applications of programming techniques in the PASCAL programming language. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course.

Approval Number ................................................. 11.0201.53 07
CIP Area .................................................. Computer & Information Sciences
maximum SCH per student .......................................................... 8
maximum SCH per course ............................................................ 4
maximum contact hours per course ..............................................
COSC 2319  Assembly Language Programming II (3 SCH version)
COSC 2419  Assembly Language Programming II (4 SCH version)

Further applications of Assembly Language programming techniques. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course.

Approval Number ............................................................................................... 11.0201.53 07
CIP Area ................................................................. Computer & Information Sciences

maximum SCH per student .................................................................................... 8
maximum SCH per course .................................................................................... 4
maximum contact hours per course .................................................................... 96

COSC 2320  “C” Programming II (3 SCH version)
COSC 2420  “C” Programming II (4 SCH version)

Further applications of programming techniques in the “C” programming language. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course. (Cross-listed as BCIS 2320 or 2340)

Approval Number ............................................................................................... 11.0201.53 07
CIP Area ................................................................. Computer & Information Sciences

maximum SCH per student .................................................................................... 8
maximum SCH per course .................................................................................... 4
maximum contact hours per course .................................................................... 96

COSC 2325  Computer Organization & Machine Language (3 SCH version)
COSC 2425  Computer Organization & Machine Language (4 SCH version)

Syntax and semantics of a typical assembly language; macros and macroprocessors; design, construction, and execution of assembly language programs; data representation; and addressing techniques.

Approval Number ............................................................................................... 11.0201.54 07
CIP Area ................................................................. Computer & Information Sciences

maximum SCH per student .................................................................................... 8
maximum SCH per course .................................................................................... 4
maximum contact hours per course .................................................................... 96

COSC 2330  Advanced Structured Languages (3 SCH version)
COSC 2430  Advanced Structured Languages (4 SCH version)

Further applications of programming techniques. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course.

Approval Number ............................................................................................... 11.0201.53 07
CIP Area ................................................................. Computer & Information Sciences

maximum SCH per student .................................................................................... 8
maximum SCH per course .................................................................................... 4
maximum contact hours per course .................................................................... 96
COSC 2333 PL/1 Programming II (3 SCH version)
COSC 2433 PL/1 Programming II (3 SCH version)

Further applications of programming techniques in the PL/1 programming language. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course.

Approval Number ........................................... 11.0201.53 07
CIP Area ................................................. Computer & Information Sciences
maximum SCH per student ................................................................. 8
maximum SCH per course ................................................................. 4
maximum contact hours per course ................................................ 96

CRIJ (CRIMINAL JUSTICE)

CRIJ 1301 Introduction to Criminal Justice

History, philosophy, and ethical considerations of criminal justice; the nature and impact of crime; and an overview of the criminal justice system, including law enforcement and court procedures.

Approval Number ........................................... 43.0104.51 24
CIP Area ................................................. Protective Services
maximum SCH per student ................................................................. 3
maximum SCH per course ................................................................. 3
maximum contact hours per course ................................................ 48

CRIJ 1306 Court Systems & Practices

Study of the judiciary in the American criminal justice system and the adjudication processes and procedures.

Approval Number ........................................... 22.0101.54 24
CIP Area ................................................. Law
maximum SCH per student ................................................................. 3
maximum SCH per course ................................................................. 3
maximum contact hours per course ................................................ 48

CRIJ 1307 Crime in America

American crime problems in historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes, and prevention of crime.

Approval Number ........................................... 45.0401.52 25
CIP Area ................................................. Social Sciences
maximum SCH per student ................................................................. 3
maximum SCH per course ................................................................. 3
maximum contact hours per course ................................................ 48
CRIJ 1310  Fundamentals of Criminal Law
Study of criminal law, its philosophical and historical development, major definitions and concepts, classifications and elements of crime, penalties using Texas statutes as illustrations, and criminal responsibility.

Approval Number ........................................................................................................... 22.0101.53 24
CIP Area ......................................................................................................................... Law
maximum SCH per student ............................................................................................ 3
maximum SCH per course ............................................................................................. 3
maximum contact hours per course ............................................................................... 48

CRIJ 1313  Juvenile Justice System
A study of the juvenile justice process to include specialized juvenile law, role of the juvenile law, role of the juvenile courts, role of police agencies, role of correctional agencies, and theories concerning delinquency.

Approval Number ........................................................................................................... 43.0104.52 24
CIP Area ......................................................................................................................... Protective Services
maximum SCH per student ............................................................................................ 3
maximum SCH per course ............................................................................................. 3
maximum contact hours per course ............................................................................... 48

CRIJ 2301  Community Resources in Corrections
An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment.

Approval Number ........................................................................................................... 43.0104.53 24
CIP Area ......................................................................................................................... Protective Services
maximum SCH per student ............................................................................................ 3
maximum SCH per course ............................................................................................. 3
maximum contact hours per course ............................................................................... 48

CRIJ 2313  Correctional Systems & Practices
Corrections in the criminal justice system; organization of correctional systems; correctional role; institutional operations; alternatives to institutionalization; treatment and rehabilitation; current and future issues.

Approval Number ........................................................................................................... 43.0104.54 24
CIP Area ......................................................................................................................... Protective Services
maximum SCH per student ............................................................................................ 3
maximum SCH per course ............................................................................................. 3
maximum contact hours per course ............................................................................... 48
CRIJ 2314  Criminal Investigation
Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation.

Approval Number ................................................................. 43.0104.55 24
CIP Area ................................................................................ Protective Services
maximum SCH per student ......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course ........................................... 80

CRIJ 2323  Legal Aspects of Law Enforcement
Police authority; responsibilities; constitutional constraints; laws of arrest, search, and seizure; police liability.

Approval Number ................................................................. 43.0104.56 24
CIP Area ................................................................................ Protective Services
maximum SCH per student ......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course ........................................... 48

CRIJ 2328  Police Systems & Practices
The police profession; organization of law enforcement systems; the police role; police discretion; ethics; police-community interaction; current and future issues.

Approval Number ................................................................. 43.0104.57 24
CIP Area ................................................................................ Protective Services
maximum SCH per student ......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course ........................................... 48

CZEC (CZECHOSLOVAKIAN LANGUAGE)
CZEC 1311  Beginning Czech I (1st semester Czech, 3 SCH version)
CZEC 1411  Beginning Czech I (1st semester Czech, 4 SCH version)
CZEC 1511  Beginning Czech I (1st semester Czech, 5 SCH version)
CZEC 1312  Beginning Czech II (2nd semester Czech, 3 SCH version)
CZEC 1412  Beginning Czech II (2nd semester Czech, 4 SCH version)
CZEC 1512  Beginning Czech II (2nd semester Czech, 5 SCH version)

Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

Approval Number ................................................................. 16.0403.51 13
CIP Area ................................................................................ Foreign Languages
maximum SCH per student ......................................................... 10
maximum SCH per course ........................................................ 5
maximum contact hours per course ........................................ 112
CZEC 2311  Intermediate Czech I (3rd semester Czech)
CZEC 2312  Intermediate Czech II (4th semester Czech)

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture.

Approval Number ......................................................... 16.0403.52 13
CIP Area ................................................................. Foreign Languages
maximum SCH per student.......................................................... 6
maximum SCH per course ............................................................ 3
maximum contact hours per course .............................................. 80

DANC (DANCE)
DANC 1101  Dance Composition I
DANC 1102  Dance Composition II
DANC 1103  Dance Composition III
DANC 1201  Dance Composition (single-semester course, 2 SCH version)
DANC 1301  Dance Composition (single-semester course, 3 SCH version)

Development of basic principles and theories involved in composition. Emphasis is placed on movement principles, group and structural forms.

Approval Number .......................................................... 50.0301.55 26
CIP Area ................................................................. Visual & Performing Arts
maximum SCH per student.......................................................... 3
maximum SCH per course ............................................................ 3
maximum contact hours per course .............................................. 96

DANC 1112  Dance Practicum I (1 SCH version)
DANC 1212  Dance Practicum I (2 SCH version)
DANC 1113  Dance Practicum II (1 SCH version)
DANC 1213  Dance Practicum II (2 SCH version)
DANC 2112  Dance Practicum III (1 SCH version)
DANC 2212  Dance Practicum III (2 SCH version)
DANC 2113  Dance Practicum IV (1 SCH version)
DANC 2213  Dance Practicum IV (2 SCH version)

A practicum in dance as a performing art.

Approval Number .......................................................... 50.0301.53 26
CIP Area ................................................................. Visual & Performing Arts
maximum SCH per student.......................................................... 8
maximum SCH per course ............................................................ 2
maximum contact hours per course .............................................. 96
DANC 2210    Dance Repertory I
DANC 2211    Dance Repertory II

A practicum in dance as a performing art.

Approval Number .......................................................... 50.0301.53 26
CIP Area ................................................................. Visual & Performing Arts
maximum SCH per student .................................................. 8
maximum SCH per course .................................................. 2
maximum contact hours per course ...................................... 96
<table>
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<th>Course Title</th>
<th>SCH Version</th>
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<tbody>
<tr>
<td>DANC 1141</td>
<td>Ballet I</td>
<td>1</td>
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<tr>
<td>DANC 1241</td>
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<td>DANC 1341</td>
<td>Ballet I</td>
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<tr>
<td>DANC 1142</td>
<td>Ballet II</td>
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<td>DANC 1242</td>
<td>Ballet II</td>
<td>2</td>
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<tr>
<td>DANC 1342</td>
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Instruction and participation in ballet technique.

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Instruction and participation in modern dance technique.

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Instruction and participation in jazz dance technique.

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Instruction and participation in folk dance technique.

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Instruction and participation in dance performance.

Approval Number: 50.0301.52 26
CIP Area: Visual & Performing Arts
maximum SCH per student: 18
maximum SCH per course: 3
maximum contact hours per course: 96

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Instruction and participation in Spanish ballet technique.

Approval Number: 50.0301.52 26
CIP Area: Visual & Performing Arts
maximum SCH per student: 18
maximum SCH per course: 3
maximum contact hours per course: 96
DANC 2301  Problems in Dance
Instruction and participation in ballet, jazz, or modern dance technique.

Approval Number ................................................................. 50.0301.52 26
CIP Area .................................................................Visual & Performing Arts
maximum SCH per student ........................................... 18
maximum SCH per course .................................................. 3
maximum contact hours per course .............................. 96

DANC 2303  Dance Appreciation I (may also be single-semester course)
DANC 2304  Dance Appreciation II
Survey of primitive, classical, and contemporary dance and its interrelationship with cultural developments and other art forms.

Approval Number ................................................................. 50.0301.54 26
CIP Area .................................................................Visual & Performing Arts
maximum SCH per student ........................................... 18
maximum SCH per course .................................................. 3
maximum contact hours per course .............................. 96

DANC 2325  Anatomy & Kinesiology for Dance
Instruction and participation in ballet, jazz, or modern dance technique.

Approval Number ................................................................. 50.0301.52 26
CIP Area .................................................................Visual & Performing Arts
maximum SCH per student ........................................... 3
maximum SCH per course .................................................. 3
maximum contact hours per course .............................. 96

DANC 2189  Academic Cooperative (1 SCH version)
DANC 2289  Academic Cooperative (2 SCH version)
DANC 2389  Academic Cooperative (3 SCH version)
An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of dance.

Approval Number ................................................................. 24.0103.52 12
CIP Area .................................................................Interdisciplinary
maximum SCH per student ........................................... 3
maximum SCH per course .................................................. 3
maximum contact hours per course .............................. 112
DRAM (DRAMA)

DRAM 1310  Introduction to Theater

Survey of all phases of theater including its history, dramatic works, stage techniques, production procedures, and relation to the fine arts. Participation in major productions may be required.

Approval Number ................................................................. 50.0501.51 26
CIP Area .............................................................................. Visual & Performing Arts
maximum SCH per student .................................................. 3
maximum SCH per course .................................................. 3
maximum contact hours per course .................................. 96

DRAM 1120  Theater Practicum I (1 SCH version)
DRAM 1220  Theater Practicum I (2 SCH version)
DRAM 1320  Theater Practicum I (3 SCH version)

DRAM 1121  Theater Practicum II (1 SCH version)
DRAM 1221  Theater Practicum II (2 SCH version)
DRAM 1321  Theater Practicum II (3 SCH version)

DRAM 2120  Theater Practicum III (1 SCH version)
DRAM 2220  Theater Practicum III (2 SCH version)

DRAM 2121  Theater Practicum IV (1 SCH version)

DRAM 1322  Stage Movement

DRAM 1323  Basic Theater Practice (single-semester course)

Practicum in theater with emphasis on technique and procedures with experience gained in play productions.

Approval Number ................................................................. 50.0501.52 26
CIP Area .............................................................................. Visual & Performing Arts
maximum SCH per student .................................................. 6
maximum SCH per course .................................................. 3
maximum contact hours per course .................................. 96

DRAM 1330  Stagecraft I
DRAM 2331  Stagecraft II

Study and application of visual aesthetics of design which may include the physical theater, scenery construction and painting, properties, lighting, costume, makeup, and backstage organization.

Approval Number ................................................................. 50.0502.51 26
CIP Area .............................................................................. Visual & Performing Arts
maximum SCH per student .................................................. 6
maximum SCH per course .................................................. 3
maximum contact hours per course .................................. 96
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<td>DRAM 1341</td>
<td>Makeup</td>
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Design and execution of makeup for the purpose of developing believable characters. Includes discussion of basic makeup principles and practical experience of makeup application.

- Approval Number: 50.0502.52 26
- CIP Area: Visual & Performing Arts
- Maximum SCH per student: 3
- Maximum SCH per course: 3
- Maximum contact hours per course: 96

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<td>DRAM 1342</td>
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Principles and techniques of costume design and construction for theatrical productions.

- Approval Number: 50.0502.53 26
- CIP Area: Visual & Performing Arts
- Maximum SCH per student: 3
- Maximum SCH per course: 3
- Maximum contact hours per course: 96

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<td>Acting III</td>
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<td>DRAM 2352</td>
<td>Acting IV</td>
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Development of basic skills and techniques of acting including increased sensory awareness, ensemble performing, character analysis, and script analysis. Emphasis on the mechanics of voice, body, emotion, and analysis as tools for the actor.

- Approval Number: 50.0503.51 26
- CIP Area: Visual & Performing Arts
- Maximum SCH per student: 12
- Maximum SCH per course: 3
- Maximum contact hours per course: 96

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<tr>
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<td>Musical Theater II</td>
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(Also see MUSI 1159 & 2159)

Study and performance of works from the musical theater repertoire.  (*Cross-listed as MUSI 1159 & 2159*)

- Approval Number: 50.0903.61 26
- CIP Area: Visual & Performing Arts
- Maximum SCH per student: 2
- Maximum SCH per course: 1
- Maximum contact hours per course: 80
DRAM 2336  Voice for the Theater

Application of the performer's use of the voice as a creative instrument of effective communication. Encourages an awareness of the need for vocal proficiency and employs techniques designed to improve the performer's speaking abilities.

Approval Number .............................................................. 50.0503.52 26
CIP Area ........................................................................ Visual & Performing Arts
maximum SCH per student .................................................. 3
maximum SCH per course ................................................. 3
maximum contact hours per course ................................ 48

DRAM 2361  History of the Theater I
DRAM 2362  History of the Theater II
DRAM 2363  History of Musical Theater (single-semester course)

Development of theater art from the earliest times through the 20th century.

Approval Number .............................................................. 50.0505.51 26
CIP Area ........................................................................ Visual & Performing Arts
maximum SCH per student .................................................. 6
maximum SCH per course ................................................. 3
maximum contact hours per course ................................ 48

DRAM 2366  Development of the Motion Picture I (may also be single-semester course)
DRAM 2367  Development of the Motion Picture II

Emphasis on the analysis of the visual and aural aspects of selected motion pictures, dramatic aspects of narrative films, and historical growth and sociological effect of film as an art.

Approval Number .............................................................. 50.0602.51 26
CIP Area ........................................................................ Visual & Performing Arts
maximum SCH per student .................................................. 3
maximum SCH per course ................................................. 4
maximum contact hours per course ................................ 96

DRAM 2189  Academic Cooperative (1 SCH version)
DRAM 2289  Academic Cooperative (2 SCH version)
DRAM 2389  Academic Cooperative (3 SCH version)

An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of drama.

Approval Number .............................................................. 24.0103.52 12
CIP Area ........................................................................ Interdisciplinary
maximum SCH per student .................................................. 3
maximum SCH per course ................................................. 3
maximum contact hours per course ................................ 112
### ECON (ECONOMICS)

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<td>Introduction to Economics</td>
<td>A study of consumer problems of the individual and of the family in the American economy. Areas of study may include: money and credit management, saving and personal investment, estate planning, wills, buying food and clothing, home ownership or rental, transportation, insurance, taxes, and consumer protection.</td>
<td>19.0402.52 09</td>
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<td>ECON 1303</td>
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<td>ECON 2301</td>
<td>Principles of Macroeconomics</td>
<td>History, development, and application of macroeconomic and microeconomic theory underlying the production, distribution, and exchange of goods and services including the utilization of resources, analysis of value and prices, national income analysis, fiscal policies, monetary and banking theory and policy, distribution of income, labor problems, international economics, and economics systems. Attention given to the application of economic principles to economic problems.</td>
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<td>ECON 2302</td>
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<td>ECON 2311</td>
<td>Economic Geography</td>
<td>Analytical study of the historical development of particular economic distributions as they relate to social, cultural, political, and physical factors. Includes critical inquiry into the reasons for location of various types of economic activity, production, and marketing. (Cross-listed as GEOG 2312)</td>
<td>45.0701.52 25</td>
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(Also see GEOG 2312)
ECON 2189  Academic Cooperative (1 SCH version)
ECON 2289  Academic Cooperative (2 SCH version)
ECON 2389  Academic Cooperative (3 SCH version)

An instructional program designed to integrate on-campus study with practical hands-on experience in economics. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions.

Approval Number ................................................................. 45.0101.51 25
CIP Area ...................................................................................... Social Sciences
maximum SCH per student .......................................................... 3
maximum SCH per course ........................................................... 3
maximum contact hours per course .............................................. 112

EDUC (EDUCATION)

EDUC 1300  Learning Framework
(Also see PSYC 1300)

A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. (Cross-listed as PSYC 1300)

(Note: While traditional study skills courses include some of the same learning strategies – e.g., note-taking, reading, test preparation etc. – as learning framework courses, the focus of study skills courses is solely or primarily on skill acquisition. Study skills courses, which are not under-girded by scholarly models of the learning process, are not considered college-level, and, therefore, are distinguishable from Learning Framework courses.)

Approval Number ................................................................. 42.0301.51 25
CIP Area ...................................................................................... Psychology
maximum SCH per student .......................................................... 3
maximum SCH per course ........................................................... 3
maximum contact hours per course .............................................. 48
EDUC 1301  Introduction to Education/ Schools and Society *(3 SCH version)*

OR

EDUC 1101 Schools and Society I *(1st 1 SCH Course)*
EDUC 1102 Schools and Society II *(2nd 1 SCH Course)*
EDUC 1103 Schools and Society III *(3rd 1 SCH Course)*

An enriched integrated pre-service course and content experience that:

1) provides active recruitment and support of undergraduates interested in a teaching career, especially in high need fields such as secondary math and science education. Bilingual education, and special education;

2) provides students with opportunities to participate in early field experiences including middle and high school classrooms with varied and diverse student populations;

3) provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introducing and analyzing the culture of schooling and classrooms from the perspectives of language, gender, socioeconomic, ethnic, and disability-based academic diversity and equity.

Approval Number .......................................................... 13.0101.51 09
CIP Area ...................................................................................... Education
maximum SCH per student ........................................................................................................... 3
maximum SCH per course .......................................................................................................... 3
maximum contact hours per course ............................................................................................ 48

**NOTE:** May be offered as a single 3 SCH course or three 1 SCH courses.

EDUC 1325  Principles and Practices of Multicultural Education

An examination of cultural diversity found in society and reflected in the classroom. Topics include the study of major cultures and their influence on lifestyle, behavior, learning, intercultural communication and teaching, as well as psychosocial stressors encountered by diverse cultural groups.

Approval Number .......................................................... 13.0101.51 09
CIP Area ...................................................................................... Education
maximum SCH per student ........................................................................................................... 3
maximum SCH per course .......................................................................................................... 3
maximum contact hours per course ............................................................................................ 48

EDUC 2301  Introduction to Special Education

Introduction to special education including characteristics, problems, and needs of the exceptional learner. Public and private services available to the handicapped citizen. Field trips may be required.

Approval Number .......................................................... 13.1001.51 09
CIP Area ...................................................................................... Education
maximum SCH per student ........................................................................................................... 3
maximum SCH per course .......................................................................................................... 3
maximum contact hours per course ............................................................................................ 48
ENGL (ENGLISH)

ENGL 1111  Creative Writing Workshop
Practical experience in the techniques of imaginative writing. May include fiction, nonfiction, poetry, or drama.

Approval Number ................................................................. 23.0501.51 12
CIP Area .................................................................................... Letters
maximum SCH per student ....................................................... 1
maximum SCH per course ....................................................... 1
maximum contact hours per course ....................................... 48

ENGL 1301  Composition I
ENGL 1302  Composition II
Principles and techniques of written, expository, and persuasive composition; analysis of literary, expository, and persuasive texts; and critical thinking.

Approval Number ................................................................. 23.0401.51 12
CIP Area .................................................................................... Letters
maximum SCH per student ....................................................... 6
maximum SCH per course ....................................................... 3
maximum contact hours per course ....................................... 64

ENGL 1306  Composition for Non-Native Speakers I
ENGL 1307  Composition for Non-Native Speakers II
Principles and techniques of college-level composition and reading. Open only to non-native speakers. (Courses Under Review)

Approval Number ................................................................. 23.0401.52 12
CIP Area .................................................................................... Letters
maximum SCH per student ....................................................... 6
maximum SCH per course ....................................................... 3
maximum contact hours per course ....................................... 96

ENGL 1311  Business English
Principles, techniques, and skills needed for college level scientific, technical, or business writing.

Approval Number ................................................................. 23.1101.51 12
CIP Area .................................................................................... Letters
maximum SCH per student ....................................................... 6
maximum SCH per course ....................................................... 3
maximum contact hours per course ....................................... 48
ENGL 1312  Business Writing

Principles, techniques, and skills needed for college level scientific, technical, or business writing.

Approval Number ................................................................. 23.1101.51 12
CIP Area ...........................................................................Letters
maximum SCH per student ....................................................... 6
maximum SCH per course ......................................................... 3
maximum contact hours per course ........................................ 48

ENGL 2307  Creative Writing I
ENGL 2308  Creative Writing II

Practical experience in the techniques of imaginative writing. May include fiction, nonfiction, poetry, or drama.

Approval Number ................................................................. 23.0501.51 12
CIP Area ...........................................................................Letters
maximum SCH per student ....................................................... 3
maximum SCH per course ......................................................... 3
maximum contact hours per course ........................................ 48

ENGL 2311  Technical & Business Writing (single-semester course)
ENGL 2314  Technical & Business Writing I
ENGL 2315  Technical & Business Writing II

Principles, techniques, and skills needed for college level scientific, technical, or business writing.

Approval Number ................................................................. 23.1101.51 12
CIP Area ...........................................................................Letters
maximum SCH per student ....................................................... 3
maximum SCH per course ......................................................... 3
maximum contact hours per course ........................................ 48

ENGL 2321  British Literature (single-semester course)
ENGL 2322  British Literature I
ENGL 2323  British Literature II

Selected significant works of British literature. May include study of movements, schools, or periods.

Approval Number ................................................................. 23.0801.51 12
CIP Area ...........................................................................Letters
maximum SCH per student ....................................................... 3
maximum SCH per course ......................................................... 3
maximum contact hours per course ........................................ 48
ENGL 2326  American Literature (single-semester course)
ENGL 2327  American Literature I
ENGL 2328  American Literature II
Selected significant works of American literature. May include study of movements, schools, or periods.
Approval Number ................................................................. 23.0701.51 12
CIP Area ..................................................................................Letters
maximum SCH per student .......................................................... 3
maximum SCH per course ............................................................ 3
maximum contact hours per course .................................................. 48

ENGL 2331  World Literature (single-semester course)
ENGL 2332  World Literature I
ENGL 2333  World Literature II
Selected significant works of world literature. May include study of movements, schools, or periods.
Approval Number ................................................................. 23.0301.52 12
CIP Area ..................................................................................Letters
maximum SCH per student .......................................................... 3
maximum SCH per course ............................................................ 3
maximum contact hours per course .................................................. 48

ENGL 2341  Forms of Literature (single-semester course)
ENGL 2342  Forms of Literature I
ENGL 2343  Forms of Literature II
The study of one or more literary genres including, but not limited to, poetry, fiction, drama, and film.
Approval Number ................................................................. 23.0301.51 12
CIP Area ..................................................................................Letters
maximum SCH per student .......................................................... 6
maximum SCH per course ............................................................ 3
maximum contact hours per course .................................................. 48

ENGL 2189  Academic Cooperative (1 SCH version)
ENGL 2289  Academic Cooperative (2 SCH version)
ENGL 2389  Academic Cooperative (3 SCH version)
An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of English language and literature.
Approval Number ................................................................. 24.0103.52 12
CIP Area .................................................................................Interdisciplinary
maximum SCH per student .......................................................... 3
maximum SCH per course ............................................................ 3
maximum contact hours per course .................................................. 112
### ENGR (ENGINEERING)

**ENGR 1101** Introduction to Engineering I

Introduction to engineering as a discipline and a profession. Includes instruction in the application of mathematical and scientific principles to the solution of practical problems for the benefit of society.

- Approval Number: 14.0101.51 10
- CIP Area: Engineering
- Maximum SCH per student: 2
- Maximum SCH per course: 2
- Maximum contact hours per course: 32

**ENGR 1102** Introduction to Engineering II

- Maximum SCH per student: 2
- Maximum SCH per course: 2
- Maximum contact hours per course: 32

**ENGR 1201** Introduction to Engineering *(single-semester course)*

Introduction to engineering as a discipline and a profession. Includes instruction in the application of mathematical and scientific principles to the solution of practical problems for the benefit of society.

- Approval Number: 14.0101.51 10
- CIP Area: Engineering
- Maximum SCH per student: 2
- Maximum SCH per course: 2
- Maximum contact hours per course: 32

**ENGR 1204** Engineering Graphics I *(2 SCH version)*

Introduction to spatial relationships, multiview projection and sectioning, dimensioning, graphical presentation of data, and fundamentals of computer graphics.

- Approval Number: 48.0101.51 02
- CIP Area: Precision Production
- Maximum SCH per student: 6
- Maximum SCH per course: 3
- Maximum contact hours per course: 96

**ENGR 1304** Engineering Graphics I *(3 SCH version)*

- Maximum SCH per student: 6
- Maximum SCH per course: 3
- Maximum contact hours per course: 96

**ENGR 1205** Engineering Graphics II *(Descriptive Geometry, 2 SCH version)*

- Maximum SCH per student: 3
- Maximum SCH per course: 3
- Maximum contact hours per course: 96

**ENGR 1305** Engineering Graphics II *(Descriptive Geometry, 3 SCH version)*

- Maximum SCH per student: 4
- Maximum SCH per course: 4
- Maximum contact hours per course: 96

**ENGR 1307** Plane Surveying *(3 SCH version)*

Use and care of instruments, note keeping, distance measurements, traverse surveying, areas, angles and elevations, legal principles, elementary map making, plane table and transit methods of topographic map production, field problems related to highway surveying, circular and vertical curves, earthwork, volumes and cost estimates, and triangulation and base lines.

- Approval Number: 15.1102.51 11
- CIP Area: Engineering Related Technologies
- Maximum SCH per student: 4
- Maximum SCH per course: 4
- Maximum contact hours per course: 96

**ENGR 1407** Plane Surveying *(4 SCH version)*

- Maximum SCH per student: 4
- Maximum SCH per course: 4
- Maximum contact hours per course: 96
ENGR 2301  Engineering Mechanics I - Statics (3 SCH version)
ENGR 2401  Engineering Mechanics I - Statics (4 SCH version)

Calculus-based study of composition and resolution of forces, equilibrium of force systems, friction, centroids, and moments of inertia. Prerequisite: the first calculus-based physics course. Corequisite: a second course in calculus.

Approval Number ............................................................................................... 14.1101.52 10
CIP Area ................................................................................................................. Engineering
maximum SCH per student.............................................................................................. 4
maximum SCH per course ............................................................................................... 4
maximum contact hours per course ....................................................................................... 64

ENGR 2302  Engineering Mechanics II - Dynamics (3 SCH version)
ENGR 2402  Engineering Mechanics II - Dynamics (4 SCH version)


Approval Number ............................................................................................... 14.1101.53 10
CIP Area ................................................................................................................. Engineering
maximum SCH per student.............................................................................................. 4
maximum SCH per course ............................................................................................... 4
maximum contact hours per course ....................................................................................... 64

ENGR 2303  Engineering Mechanics – Statics & Dynamics (3 SCH version)
ENGR 2403  Engineering Mechanics – Statics & Dynamics (4 SCH version)

Combined, single-semester study of statics and dynamics. Calculus-based study of dynamics of rigid bodies, force-mass-acceleration, work-energy, and impulse-momentum computation. Prerequisite: the first calculus-based physics course.

Approval Number ............................................................................................... 14.1101.53 10
CIP Area ................................................................................................................. Engineering
maximum SCH per student.............................................................................................. 4
maximum SCH per course ............................................................................................... 4
maximum contact hours per course ....................................................................................... 64

ENGR 2304  FORTRAN for Engineers

Introduction to computer programming. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files.

Approval Number ............................................................................................... 11.0201.52 07
CIP Area ................................................................................................................. Computer & Information Sciences
maximum SCH per student.............................................................................................. 12
maximum SCH per course ............................................................................................... 4
maximum contact hours per course ....................................................................................... 96
ENGR 2405  Fundamentals of Electrical Engineering (lecture + lab)
ENGR 2406  Fundamentals of Electrical Engineering II (lecture + lab)
ENGR 2305  Fundamentals of Electrical Engineering (lecture)
ENGR 2105  Fundamentals of Electrical Engineering (lab)

(Course description under review.)

Approval Number ................................................................. 14.1001.51 10
CIP Area ................................................................................ Engineering
maximum SCH per student .......................................................... 4
maximum SCH per course .......................................................... 4
maximum contact hours per course ............................................. 64

ENGR 2332  Mechanics of Materials (3 SCH version)
ENGR 2432  Mechanics of Materials (4 SCH version)

Stresses, deformations, stress-strain relationships, torsions, beams, shafts, columns, elastic
deflections in beams, combined loading, and combined stresses.

Approval Number ................................................................. 14.1101.51 10
CIP Area ................................................................................ Engineering
maximum SCH per student .......................................................... 4
maximum SCH per course .......................................................... 4
maximum contact hours per course ............................................. 64

ENVR (ENVIRONMENTAL SCIENCE)
ENVR 1401  Environmental Science I
ENVR 1402  Environmental Science II

General interest course requiring a minimum of previous science background and relating
scientific knowledge to problems involving energy and the environment. May or may not
include a laboratory.

Approval Number ................................................................. 03.0102.52 01
CIP Area ................................................................................ Renewable Natural Resources
maximum SCH per student .......................................................... 8
maximum SCH per course .......................................................... 4
maximum contact hours per course ............................................. 96
## FREN (FRENCH LANGUAGE)

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Basic practice in comprehension and production of the spoken language.

**Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.**

<table>
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<td>FREN 1511</td>
<td>Beginning French I (1st semester French, 5 SCH version)</td>
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<tr>
<td>FREN 2304</td>
<td>Introduction to French Literature II</td>
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Readings representative of this culture.

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<tbody>
<tr>
<td>FREN 2306</td>
<td>Intermediate French Conversation</td>
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Basic practice in comprehension and production of the spoken language.

### Approval Numbers and Contact Hours

- FREN 1100: Approval Number: 16.0901.54 13; maximum SCH per student: 6; maximum contact hours per course: 48
- FREN 1200: Approval Number: 16.0901.54 13; maximum SCH per student: 6; maximum contact hours per course: 48
- FREN 1300: Approval Number: 16.0901.54 13; maximum SCH per student: 6; maximum contact hours per course: 48
- FREN 1110: Approval Number: 16.0901.54 13; maximum SCH per student: 6; maximum contact hours per course: 48
- FREN 1210: Approval Number: 16.0901.54 13; maximum SCH per student: 6; maximum contact hours per course: 48
- FREN 1310: Approval Number: 16.0901.54 13; maximum SCH per student: 6; maximum contact hours per course: 48
- FREN 1311: Approval Number: 16.0901.51 13; maximum SCH per student: 10; maximum contact hours per course: 112
- FREN 1411: Approval Number: 16.0901.51 13; maximum SCH per student: 10; maximum contact hours per course: 112
- FREN 1511: Approval Number: 16.0901.51 13; maximum SCH per student: 10; maximum contact hours per course: 112
- FREN 1312: Approval Number: 16.0901.51 13; maximum SCH per student: 10; maximum contact hours per course: 112
- FREN 1412: Approval Number: 16.0901.51 13; maximum SCH per student: 10; maximum contact hours per course: 112
- FREN 1512: Approval Number: 16.0901.51 13; maximum SCH per student: 10; maximum contact hours per course: 112
- FREN 2303: Approval Number: 16.0901.53 13; maximum SCH per student: 6; maximum contact hours per course: 48
- FREN 2304: Approval Number: 16.0901.53 13; maximum SCH per student: 6; maximum contact hours per course: 48
- FREN 2306: Approval Number: 16.0901.54 13; maximum SCH per student: 6; maximum contact hours per course: 48
**FREN 2311**  Intermediate French I *(3rd semester French)*

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture.

Approval Number ................................................................. 16.0901.52 13
CIP Area ................................................................. Foreign Languages
maximum SCH per student ..................................................... 6
maximum SCH per course .......................................................... 3
maximum contact hours per course .............................................. 80

**FREN 2312**  Intermediate French II *(4th semester French)*

**FREN 2189**  Academic Cooperative *(1 SCH version)*

**FREN 2289**  Academic Cooperative *(2 SCH version)*

**FREN 2389**  Academic Cooperative *(3 SCH version)*

An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of French language and literature.

Approval Number ................................................................. 24.0103.52 12
CIP Area ................................................................. Interdisciplinary
maximum SCH per student ..................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course .............................................. 112

**GEOG (GEOGRAPHY)**

**GEOG 1300**  Principles of Geography *(single-semester course, combines physical & cultural)*

**GEOG 1301**  Physical Geography

**GEOG 1302**  Cultural Geography

Introduction to the concepts which provide a foundation for continued study of geography. Includes the different elements of natural environment as related to human activities, modes of living, and map concepts. The first semester emphasizes physical geography and the second semester emphasizes cultural geography.

Approval Number ................................................................. 45.0701.51 25
CIP Area ................................................................. Social Sciences
maximum SCH per student ..................................................... 6
maximum SCH per course .......................................................... 3
maximum contact hours per course .............................................. 48
GEOG 1303  World Regional Geography  
GEOG 1304  Geography of Middle America  
GEOG 1305  Geography of North America

Study of major world regions with emphasis on prevailing conditions and developments, including emerging conditions and trends, and the awareness of diversity of ideas and practices to be found in those regions. Course content may include one or more regions.

Approval Number ........................................................................................................ 45.0701.53 25  
CIP Area ...................................................................................................................... Social Sciences  
maximum SCH per student ......................................................................................... 3  
maximum SCH per course .......................................................................................... 3  
maximum contact hours per course ......................................................................... 48  

GEOG 2312  Economic Geography  
(Also see ECON 2311)

Analytical study of the historical development of particular economic distributions as they relate to social, cultural, political, and physical factors. Includes critical inquiry into the reasons for location of various types of economic activity, production, and marketing.  
(Cross-listed as ECON 2311)

Approval Number ........................................................................................................ 45.0701.52 25  
CIP Area ...................................................................................................................... Social Sciences  
maximum SCH per student ......................................................................................... 3  
maximum SCH per course .......................................................................................... 3  
maximum contact hours per course ......................................................................... 48  

GEOG 2189  Academic Cooperative (1 SCH version)  
GEOG 2289  Academic Cooperative (2 SCH version)  
GEOG 2389  Academic Cooperative (3 SCH version)

An instructional program designed to integrate on-campus study with practical hands-on experience in geography. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions.

Approval Number ........................................................................................................ 45.0101.51 25  
CIP Area ...................................................................................................................... Social Sciences  
maximum SCH per student ......................................................................................... 3  
maximum SCH per course .......................................................................................... 3  
maximum contact hours per course ......................................................................... 112
### GEOL (GEOLOGY)

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<td>GEOL 1401</td>
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Survey of physical and historical geology, astronomy, meteorology, oceanography, and related sciences.

- Approval Number: 40.0703.51 03
- CIP Area: Physical Sciences
- Maximum SCH per student: 8
- Maximum SCH per course: 4
- Maximum contact hours per course: 96

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<td>GEOL 1303</td>
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<td>GEOL 1103</td>
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Principles of physical and historical geology. Study of the earth's composition, structure, and internal and external processes. Includes the geologic history of the earth and the evolution of life.

- Approval Number: 40.0601.51 03
- CIP Area: Physical Sciences
- Maximum SCH per student: 8
- Maximum SCH per course: 4
- Maximum contact hours per course: 112

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<td>GEOL 1104</td>
<td>Historical Geology Laboratory (lab)</td>
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Principles of physical and historical geology. Study of the earth's composition, structure, and internal and external processes. Includes the geologic history of the earth and the evolution of life.

- Approval Number: 40.0601.51 03
- CIP Area: Physical Sciences
- Maximum SCH per student: 8
- Maximum SCH per course: 4
- Maximum contact hours per course: 112
GEOL 1405  Environmental Geology (lecture + lab)
GEOL 1305  Environmental Geology (lecture)
GEOL 1105  Environmental Geology Laboratory (lab)

The earth as a habitat. Interrelationships between humans and the environment. Geologic factors in urban and regional land use planning.

Approval Number ............................................................................................... 03.0102.53 01
CIP Area ................................................................. Renewable Natural Resources
maximum SCH per student.......................................................................................... 4
maximum SCH per course ......................................................................................... 4
maximum contact hours per course ......................................................................... 96

GEOL 1445  Oceanography (lecture + lab)
GEOL 1345  Oceanography (lecture)
GEOL 1145  Oceanography (lab)

Survey of physical and historical geology, astronomy, meteorology, oceanography, and related sciences.

Approval Number ............................................................................................... 40.0703.51 03
CIP Area ................................................................. Physical Sciences
maximum SCH per student......................................................................................... 12
maximum SCH per course ......................................................................................... 4
maximum contact hours per course ......................................................................... 96

GEOL 1446  Astronomy (lecture + lab)
GEOL 1346  Astronomy (lecture)
GEOL 1146  Astronomy (lab)

Survey of physical and historical geology, astronomy, meteorology, oceanography, and related sciences.

Approval Number ............................................................................................... 40.0703.51 03
CIP Area ................................................................. Physical Sciences
maximum SCH per student......................................................................................... 12
maximum SCH per course ......................................................................................... 4
maximum contact hours per course ......................................................................... 96

GEOL 1447  Meteorology (lecture + lab)
GEOL 1347  Meteorology (lecture)
GEOL 1147  Meteorology (lab)

Survey of physical and historical geology, astronomy, meteorology, oceanography, and related sciences.

Approval Number ............................................................................................... 40.0703.51 03
CIP Area ................................................................. Physical Sciences
maximum SCH per student......................................................................................... 12
maximum SCH per course ......................................................................................... 4
maximum contact hours per course ......................................................................... 96
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>GEOL 2405</td>
<td>Optical Mineralogy <em>(lecture + lab)</em></td>
<td>3 SCH</td>
<td>Principles and methods of optical crystallography and optical properties of minerals.</td>
</tr>
<tr>
<td>GEOL 2305</td>
<td>Optical Mineralogy <em>(lecture)</em></td>
<td>3 SCH</td>
<td></td>
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<tr>
<td>GEOL 2105</td>
<td>Optical Mineralogy <em>(lab)</em></td>
<td>3 SCH</td>
<td></td>
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<tr>
<td>GEOL 2407</td>
<td>Geological Field Methods <em>(lecture + lab)</em></td>
<td>3 SCH</td>
<td>Collection of field data, interpretation and construction of geologic and topographic maps, and examination of petrologic systems in a field setting.</td>
</tr>
<tr>
<td>GEOL 2307</td>
<td>Geological Field Methods <em>(lecture)</em></td>
<td>3 SCH</td>
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<tr>
<td>GEOL 2107</td>
<td>Geological Field Methods <em>(lab)</em></td>
<td>3 SCH</td>
<td></td>
</tr>
<tr>
<td>GEOL 2309</td>
<td>Mineralogy &amp; Petrology I <em>(3 SCH version)</em></td>
<td>3 SCH</td>
<td></td>
</tr>
<tr>
<td>GEOL 2409</td>
<td>Mineralogy &amp; Petrology I <em>(4 SCH version)</em></td>
<td>4 SCH</td>
<td></td>
</tr>
<tr>
<td>GEOL 2310</td>
<td>Elementary Geophysics <em>(single-semester course)</em></td>
<td>3 SCH</td>
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<tr>
<td>GEOL 2311</td>
<td>Mineralogy &amp; Petrology II <em>(3 SCH version)</em></td>
<td>3 SCH</td>
<td></td>
</tr>
<tr>
<td>GEOL 2411</td>
<td>Mineralogy &amp; Petrology II <em>(4 SCH version)</em></td>
<td>4 SCH</td>
<td></td>
</tr>
</tbody>
</table>

Study of mineral crystallography, chemistry, classification, identification, and occurrence. Includes the genesis, classification, and identification of igneous, sedimentary, and metamorphic rocks. Prerequisite: three hours of Chemistry.

Approval Number: 40.0601.53 03
CIP Area: Physical Sciences
Maximum SCH per student: 4
Maximum SCH per course: 4
Maximum contact hours per course: 96

Approval Number: 40.0601.55 03
CIP Area: Physical Sciences
Maximum SCH per student: 4
Maximum SCH per course: 4
Maximum contact hours per course: 96

Approval Number: 40.0601.52 03
CIP Area: Physical Sciences
Maximum SCH per student: 8
Maximum SCH per course: 4
Maximum contact hours per course: 96
GEOL 2189  Academic Cooperative (1 SCH version)
GEOL 2289  Academic Cooperative (2 SCH version)
GEOL 2389  Academic Cooperative (3 SCH version)

An instructional program designed to integrate on-campus study with practical hands-on work experience in the physical sciences. In conjunction with class seminars, the individual students will set specific goals and objectives in the scientific study of inanimate objects, processes of matter and energy, and associated phenomena.

Approval Number ............................................................................................... 40.0101.53 03
CIP Area ........................................................................................................ Physical Sciences
maximum SCH per student.......................................................................................... 3
maximum SCH per course........................................................................................... 3
maximum contact hours per course .......................................................................... 112

GERM (GERMAN LANGUAGE)

GERM 1100  Conversational German I (1 SCH version)
GERM 1200  Conversational German I (2 SCH version)
GERM 1300  Conversational German I (3 SCH version)

GERM 1110  Conversational German II (1 SCH version)
GERM 1210  Conversational German II (2 SCH version)
GERM 1310  Conversational German II (3 SCH version)

Basic practice in comprehension and production of the spoken language.

Approval Number ............................................................................................... 16.0501.54 13
CIP Area ........................................................................................................ Foreign Languages
maximum SCH per student.......................................................................................... 6
maximum SCH per course........................................................................................... 3
maximum contact hours per course .......................................................................... 48

GERM 1311  Beginning German I (1st semester German, 3 SCH version)
GERM 1411  Beginning German I (1st semester German, 4 SCH version)
GERM 1511  Beginning German I (1st semester German, 5 SCH version)

GERM 1312  Beginning German II (2nd semester German, 3 SCH version)
GERM 1412  Beginning German II (2nd semester German, 4 SCH version)
GERM 1512  Beginning German II (2nd semester German, 5 SCH version)

Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

Approval Number ............................................................................................... 16.0501.51 13
CIP Area ........................................................................................................ Foreign Languages
maximum SCH per student.......................................................................................... 10
maximum SCH per course........................................................................................... 5
maximum contact hours per course .......................................................................... 112
GERM 1313  Scientific German (3 SCH version)
GERM 1413  Scientific German (4 SCH version)

The reading of specially prepared scientific texts and a review of grammar. May replace sophomore German for pre-medical and science students.

Approval Number ................................................................. 16.0501.53 13
CIP Area .................................................................Foreign Languages
maximum SCH per student ........................................ 4
maximum SCH per course ........................................... 4
maximum contact hours per course ......................... 64

GERM 2311  Intermediate German I (3rd semester German)
GERM 2312  Intermediate German II (4th semester German)

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture.

Approval Number ................................................................. 16.0501.52 13
CIP Area .................................................................Foreign Languages
maximum SCH per student ........................................ 6
maximum SCH per course ........................................... 3
maximum contact hours per course ......................... 80

GERM 2189  Academic Cooperative (1 SCH version)
GERM 2289  Academic Cooperative (2 SCH version)
GERM 2389  Academic Cooperative (3 SCH version)

An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of German language and literature.

Approval Number ................................................................. 24.0103.52 12
CIP Area .................................................................Interdisciplinary
maximum SCH per student ........................................ 3
maximum SCH per course ........................................... 3
maximum contact hours per course ......................... 112

GOVT (GOVERNMENT)
GOVT 2304  Introduction to Political Science

Introductory survey of the discipline of political science focusing on the history, scope, and methods of the field, and the substantive topics in the discipline.

Approval Number ................................................................. 45.1001.52 25
CIP Area .................................................................Social Sciences
maximum SCH per student ........................................ 3
maximum SCH per course ........................................... 3
maximum contact hours per course ......................... 48
GOVT 2301  American Government I (Federal & Texas constitutions)
GOVT 2302  American Government II (Federal & Texas topics)

GOVT 2305  Federal Government (Federal constitution & topics)
GOVT 2306  Texas Government (Texas constitution & topics)

Introduction to the theory and practice of politics and government in America at the national, state, and local levels, with special attention to Texas. Topics include political theory, the American and Texas constitutions, federalism, political participation and elections, the institutions of government, and domestic and foreign policies.

(NOTE: Because Texas Education Code; Subchapter F, Section 51.301 does not specify how the required course content should be distributed over the required six SCH, two instructional patterns, represented by the TCCN course sequences GOVT 2301 & 2302 or GOVT 2305 & 2306, have evolved among institutions. Because combination of a course from one sequence with a course from the other sequence may not successfully fulfill the content requirement of Section 51.301, students are urged to complete all six SCH within a single institution. Inevitably, however, students will seek to combine courses from the two sequences. The following alternative combinations will fulfill the content requirement of Section 51.301: GOVT 2301 and 2305; GOVT 2301 and 2306.)

Approval Number ............................................................................................... 45.1002.51 25
CIP Area ............................................................................................................Social Sciences
maximum SCH per student........................................................................................... 6
maximum SCH per course............................................................................................ 3
maximum contact hours per course .............................................................................. 48

GOVT 2189  Academic Cooperative (1 SCH version)
GOVT 2289  Academic Cooperative (2 SCH version)
GOVT 2389  Academic Cooperative (3 SCH version)

An instructional program designed to integrate on-campus study with practical hands-on experience in government. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions.

Approval Number ............................................................................................... 45.0101.51 25
CIP Area ............................................................................................................Social Sciences
maximum SCH per student........................................................................................... 3
maximum SCH per course............................................................................................ 3
maximum contact hours per course .......................................................................... 112
GREE (GREEK LANGUAGE)

GREE 1311  Beginning Greek I (1st semester Greek, 3 SCH version)
GREE 1411  Beginning Greek I (1st semester Greek, 4 SCH version)
GREE 1511  Beginning Greek I (1st semester Greek, 5 SCH version)
GREE 1312  Beginning Greek II (2nd semester Greek, 3 SCH version)
GREE 1412  Beginning Greek II (2nd semester Greek, 4 SCH version)
GREE 1512  Beginning Greek II (2nd semester Greek, 5 SCH version)

Essentials of grammar, reading of easy prose, Greek mythology and civilization, and building of English vocabulary derived from Greek.

Approval Number ................................................................. 16.0601.51 13
CIP Area ................................................................. Foreign Languages
maximum SCH per student .......................................................... 10
maximum SCH per course .......................................................... 5
maximum contact hours per course ........................................... 112

GREE 2311  Intermediate Greek I (3rd semester Greek)
GREE 2312  Intermediate Greek II (4th semester Greek)

Greek drama and selections from the Iliad.

Approval Number ................................................................. 16.0601.52 13
CIP Area ................................................................. Foreign Languages
maximum SCH per student .......................................................... 6
maximum SCH per course .......................................................... 3
maximum contact hours per course ........................................... 80

HECO (HOME ECONOMICS)

HECO 1101  Home Economics Perspectives (1 SCH version)

Study of home economics and its history, philosophy, and content areas.

Approval Number ................................................................. 19.0101.51 09
CIP Area ................................................................. Home Economics
maximum SCH per student .......................................................... 1
maximum SCH per course .......................................................... 1
maximum contact hours per course ........................................... 16

HECO 1315  Food Preparation & Meal Management

Study of scientific principles involved in the selection and preparation of high quality foods. Management of time, money, and energy resources in the planning, preparation, and service of meals.

Approval Number ................................................................. 19.0501.51 09
CIP Area ................................................................. Home Economics
maximum SCH per student .......................................................... 6
maximum SCH per course .......................................................... 3
maximum contact hours per course ........................................... 96
HECO 1320  Textiles
Analysis of fibers, yarns, fabrics, and finishes as related to end use, performance, and care of textile products.
Approval Number ..................................................................................................................... 20.0301.52 09
CIP Area .................................................................................................................................. Vocational Home Economics
maximum SCH per student....................................................................................................... 3
maximum SCH per course ......................................................................................................... 3
maximum contact hours per course ......................................................................................... 96

HECO 1322  Nutrition & Diet Therapy
(Also see BIOL 1322)
Study of the chemical, physical, and sensory properties of food; nutritional quality; and food use and diet applications.  (Cross-listed as BIOL 1322)
Approval Number ..................................................................................................................... 19.0502.51 09
CIP Area .................................................................................................................................. Home Economics
maximum SCH per student....................................................................................................... 3
maximum SCH per course ......................................................................................................... 3
maximum contact hours per course ......................................................................................... 48

HECO 1325  Housing & Interior Design I
HECO 1326  Housing & Interior Design II
Study of the psychological, sociological, economic, and aesthetic factors in the selection of housing and in the planning and analysis of interior home environments.
Approval Number ..................................................................................................................... 19.0603.51 09
CIP Area .................................................................................................................................. Home Economics
maximum SCH per student....................................................................................................... 6
maximum SCH per course ......................................................................................................... 3
maximum contact hours per course ......................................................................................... 96

HECO 1328  Clothing Selection, Design, & Construction I
HECO 1329  Clothing Selection, Design, & Construction II
Selection, design, and construction of clothing apparel and accessories.
Approval Number ..................................................................................................................... 20.0301.51 09
CIP Area .................................................................................................................................. Vocational Home Economics
maximum SCH per student....................................................................................................... 6
maximum SCH per course ......................................................................................................... 3
maximum contact hours per course ......................................................................................... 96

HECO 2311  Fashion Merchandising
Principles, techniques, and practices for successful merchandising of fashion products.
Approval Number ..................................................................................................................... 08.0102.51 04
CIP Area .................................................................................................................................. Marketing & Distribution
maximum SCH per student....................................................................................................... 3
maximum SCH per course ......................................................................................................... 3
maximum contact hours per course ......................................................................................... 96
HIST (HISTORY)

HIST 1301  United States History I
HIST 1302  United States History II

Survey of the political, social, economic, military, cultural, and intellectual history of the United States from the discovery of America to the present.

Approval Number ............................................................................................................. 45.0802.51 25
CIP Area ................................................................................................................... Social Sciences
maximum SCH per student .............................................................................................. 6
maximum SCH per course ............................................................................................... 3
maximum contact hours per course .................................................................................. 48

HIST 2301  Texas History

Survey of Texas from the Spanish exploration to the present.

Approval Number ............................................................................................................. 45.0802.52 25
CIP Area ................................................................................................................... Social Sciences
maximum SCH per student .............................................................................................. 6
maximum SCH per course ............................................................................................... 3
maximum contact hours per course .................................................................................. 48

HIST 2311  Western Civilization I
HIST 2312  Western Civilization II

Survey of the political, social, economic, military, cultural, and intellectual development of Europe from prehistory to the present.

Approval Number ............................................................................................................. 45.0801.54 25
CIP Area ................................................................................................................... Social Sciences
maximum SCH per student .............................................................................................. 6
maximum SCH per course ............................................................................................... 3
maximum contact hours per course .................................................................................. 48

HIST 2313  History of England I
HIST 2314  History of England II

Survey of the political, social, economic, military, cultural, and intellectual development of England from prehistory to the present.

Approval Number ............................................................................................................. 45.0801.54 25
CIP Area ................................................................................................................... Social Sciences
maximum SCH per student .............................................................................................. 6
maximum SCH per course ............................................................................................... 3
maximum contact hours per course .................................................................................. 48
HIST 2321  World Civilizations I
HIST 2322  World Civilizations II
HIST 2323  Eastern Civilizations (single-semester course)

Survey of ancient and medieval history with emphasis on Asian, African, and European cultures in the first course. Second course includes the modern history and culture of Asia, Africa, Europe, and the Americas.

Approval Number ................................................................. 45.0801.53 25
CIP Area ................................................................................... Social Sciences
maximum SCH per student ........................................................................... 6
maximum SCH per course ........................................................................... 3
maximum contact hours per course .......................................................... 48

HIST 2380  Mexican-American History
HIST 2381  African-American History

Historical, economic, social, and cultural development of minority groups. May include African-American, Mexican American, Asian American, and Native American issues.

Approval Number ................................................................. 45.1101.53 25
CIP Area ................................................................................... Social Sciences
maximum SCH per student ........................................................................... 6
maximum SCH per course ........................................................................... 3
maximum contact hours per course .......................................................... 48

HIST 2189  Academic Cooperative (1 SCH version)
HIST 2289  Academic Cooperative (2 SCH version)
HIST 2389  Academic Cooperative (3 SCH version)

An instructional program designed to integrate on-campus study with practical hands-on experience in history. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions.

Approval Number ................................................................. 45.0101.51 25
CIP Area ................................................................................... Social Sciences
maximum SCH per student ........................................................................... 3
maximum SCH per course ........................................................................... 3
maximum contact hours per course .......................................................... 112
HORT (HORTICULTURE)

HORT 1301  Horticulture (3 SCH version)
HORT 1401  Horticulture (4 SCH version)
(Also see AGRI 1315 & 1415)

Structure, growth, and development of horticultural plants from a practical and scientific approach. Environmental effects, basic principles of propagation, greenhouse and outdoor production, nutrition, pruning, chemical control of growth, pest control, and landscaping. (Cross-listed as AGRI 1315 & 1415)

Approval Number ................................................................. 01.0601.51 01
CIP Area ................................................................. Agribusiness & Agriculture Production
maximum SCH per student ............................................................. 4
maximum SCH per course ............................................................ 4
maximum contact hours per course ................................................. 96

HUMA (HUMANITIES)

HUMA 1301  Introduction to the Humanities I
HUMA 1302  Introduction to the Humanities II

An interdisciplinary, multi-perspective assessment of cultural, political, philosophical, and aesthetic factors critical to the formulation of values and the historical development of the individual and of society.

Approval Number ................................................................. 24.0103.51 12
CIP Area ................................................................. Interdisciplinary
maximum SCH per student ............................................................. 6
maximum SCH per course ............................................................ 3
maximum contact hours per course ................................................. 48

HUMA 1315  Fine Arts Appreciation

Understanding purposes and processes in the visual and musical arts including evaluation of selected works.

Approval Number ................................................................. 50.0101.51 26
CIP Area ................................................................. Visual & Performing Arts
maximum SCH per student ............................................................. 3
maximum SCH per course ............................................................ 3
maximum contact hours per course ................................................. 48

HUMA 2319  American Minority Studies

Historical, economic, social, and cultural development of minority groups. May include African-American, Mexican American, Asian American, and Native American issues.

Approval Number ................................................................. 45.1101.53 25
CIP Area ................................................................. Social Sciences
maximum SCH per student ............................................................. 6
maximum SCH per course ............................................................ 3
maximum contact hours per course ................................................. 48
HUMA 2323  World Cultures  
(Also see ANTH 2346)

Study of human beings, their antecedents and related primates, and their cultural behavior and institutions. Introduces the major sub-fields: physical and cultural anthropology, archeology, linguistics, and ethnology. *(Cross-listed as ANTH 2346)*

Approval Number ............................................................................................... 45.0201.51 25  
CIP Area ............................................................................................................Social Sciences  
maximum SCH per student...................................................................................................... 3  
maximum SCH per course ....................................................................................................... 3  
maximum contact hours per course ....................................................................................... 48

ITAL (ITALIAN LANGUAGE)

ITAL 1311  Beginning Italian I *(1st semester Italian, 3 SCH version)*  
ITAL 1411  Beginning Italian I *(1st semester Italian, 4 SCH version)*  
ITAL 1511  Beginning Italian I *(1st semester Italian, 5 SCH version)*  

ITAL 1312  Beginning Italian II *(2nd semester Italian, 3 SCH version)*  
ITAL 1412  Beginning Italian II *(2nd semester Italian, 4 SCH version)*  
ITAL 1512  Beginning Italian II *(2nd semester Italian, 5 SCH version)*

Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

Approval Number ............................................................................................... 16.0902.51 13  
CIP Area ............................................................................................................... Foreign Languages  
maximum SCH per student...................................................................................................... 10  
maximum SCH per course ....................................................................................................... 5  
maximum contact hours per course ..................................................................................... 112

ITAL 2311  Intermediate Italian I *(3rd semester Italian)*  
ITAL 2312  Intermediate Italian II *(4th semester Italian)*

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture.

Approval Number ............................................................................................... 16.0902.52 13  
CIP Area ............................................................................................................... Foreign Languages  
maximum SCH per student...................................................................................................... 6  
maximum SCH per course ....................................................................................................... 3  
maximum contact hours per course ....................................................................................... 80
JAPN (JAPANESE LANGUAGE)

JAPN 1300  Conversational Japanese I
JAPN 1310  Conversational Japanese II

Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

Approval Number ................................................................. 16.0302.51 13
CIP Area ................................................................................. Foreign Languages
maximum SCH per student .............................................................. 10
maximum SCH per course ............................................................. 5
maximum contact hours per course .............................................. 112

JAPN 1311  Beginning Japanese I (1st semester Japanese, 3 SCH version)
JAPN 1411  Beginning Japanese I (1st semester Japanese, 4 SCH version)
JAPN 1511  Beginning Japanese I (1st semester Japanese, 5 SCH version)

JAPN 1312  Beginning Japanese II (2nd semester Japanese, 3 SCH version)
JAPN 1412  Beginning Japanese II (2nd semester Japanese, 4 SCH version)
JAPN 1512  Beginning Japanese II (2nd semester Japanese, 5 SCH version)

Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

Approval Number ................................................................. 16.0302.51 13
CIP Area ................................................................................. Foreign Languages
maximum SCH per student .............................................................. 10
maximum SCH per course ............................................................. 5
maximum contact hours per course .............................................. 112

JAPN 2311  Intermediate Japanese I (3rd semester Japanese)
JAPN 2312  Intermediate Japanese II (4th semester Japanese)

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture.

Approval Number ................................................................. 16.0302.52 13
CIP Area ................................................................................. Foreign Languages
maximum SCH per student .............................................................. 6
maximum SCH per course ............................................................. 3
maximum contact hours per course .............................................. 80

KINE (KINESIOLOGY): SEE PHED LISTINGS
### LATI (LATIN LANGUAGE)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>SCH Version</th>
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<tbody>
<tr>
<td>LATI 1311</td>
<td>Elementary Latin I (1st semester Latin)</td>
<td>3</td>
</tr>
<tr>
<td>LATI 1411</td>
<td>Elementary Latin I (1st semester Latin)</td>
<td>4</td>
</tr>
<tr>
<td>LATI 1511</td>
<td>Elementary Latin I (1st semester Latin)</td>
<td>5</td>
</tr>
<tr>
<td>LATI 1312</td>
<td>Elementary Latin II (2nd semester Latin)</td>
<td>3</td>
</tr>
<tr>
<td>LATI 1412</td>
<td>Elementary Latin II (2nd semester Latin)</td>
<td>4</td>
</tr>
<tr>
<td>LATI 1512</td>
<td>Elementary Latin II (2nd semester Latin)</td>
<td>5</td>
</tr>
</tbody>
</table>

Grammar and vocabulary. Emphasis on the value of Latin as a background for the study of English and modern foreign languages.

- Approval Number: 16.1203.51
- CIP Area: Foreign Languages
- Maximum SCH per student: 10
- Maximum SCH per course: 5
- Maximum contact hours per course: 112

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<tbody>
<tr>
<td>LATI 2311</td>
<td>Intermediate Latin I (3rd semester Latin)</td>
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</tr>
<tr>
<td>LATI 2312</td>
<td>Intermediate Latin II (4th semester Latin)</td>
<td></td>
</tr>
</tbody>
</table>

Review of grammar and readings in Roman literary works.

- Approval Number: 16.1203.52
- CIP Area: Foreign Languages
- Maximum SCH per student: 6
- Maximum SCH per course: 3
- Maximum contact hours per course: 80

### MATH (MATHEMATICS)

*(NOTE: Effective September 1, 2001, MATH 1335 and 1336 (math for elementary school teachers, 1st and 2nd semesters) were deleted and replaced with MATH 1350 and 1351.)*

<table>
<thead>
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<th>Description</th>
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<tbody>
<tr>
<td>MATH 1314</td>
<td>College Algebra (3 SCH version)</td>
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</tr>
<tr>
<td>MATH 1414</td>
<td>College Algebra (4 SCH version)</td>
<td></td>
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</tbody>
</table>

Study of quadratics; polynomial, rational, logarithmic, and exponential functions; systems of equations; progressions; sequences and series; and matrices and determinants.

- Approval Number: 27.0101.54
- CIP Area: Mathematics
- Maximum SCH per student: 4
- Maximum SCH per course: 4
- Maximum contact hours per course: 64

<table>
<thead>
<tr>
<th>Course</th>
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<th>SCH Version</th>
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<tr>
<td>MATH 1316</td>
<td>Plane Trigonometry</td>
<td></td>
</tr>
</tbody>
</table>

Trigonometric functions, identities, equations, and applications.

- Approval Number: 27.0101.53
- CIP Area: Mathematics
- Maximum SCH per student: 3
- Maximum SCH per course: 3
- Maximum contact hours per course: 48
<table>
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<tr>
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<tbody>
<tr>
<td>MATH 1324</td>
<td>Mathematics for Business &amp; Social Sciences I</td>
<td>(finite mathematics)</td>
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<tr>
<td>MATH 1325</td>
<td>Mathematics for Business &amp; Social Sciences II</td>
<td>(business calculus, 3 SCH version)</td>
</tr>
<tr>
<td>MATH 1425</td>
<td>Mathematics for Business &amp; Social Sciences II</td>
<td>(business calculus, 4 SCH version)</td>
</tr>
<tr>
<td>MATH 1332</td>
<td>Math for Liberal Arts I</td>
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</tr>
<tr>
<td>MATH 1333</td>
<td>Math for Liberal Arts II</td>
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<tr>
<td>MATH 1350</td>
<td>Fundamentals of Mathematics I</td>
<td>(NOTE: This course replaces MATH 1335 and is a required part of the approved field of study curriculum for middle grades (4 through 8) teacher certification. This course may also be appropriate for early childhood education majors.)</td>
</tr>
</tbody>
</table>

Sets, probability, functions, inequalities, linear programming, and differential and integral calculus with applications.

 Approval Number ............................................................................................... 27.0301.52 19
 CIP Area ................................................................................................................Mathematics
 maximum SCH per student.......................................................................................... 7
 maximum SCH per course................................................................................................4
 maximum contact hours per course .......................................................................... 64

 MATH 1332 Math for Liberal Arts I
 MATH 1333 Math for Liberal Arts II

Modern algebra and geometry. Topics may include sets, logic, number systems, number theory, functions, equivalence, congruence, measurement, other geometric concepts, and the introduction to probability and statistics.

 Approval Number ............................................................................................... 27.0101.51 19
 CIP Area ................................................................................................................Mathematics
 maximum SCH per student.......................................................................................... 6
 maximum SCH per course................................................................................................3
 maximum contact hours per course .......................................................................... 48

 MATH 1350 Fundamentals of Mathematics I

 Concepts of sets, functions, numeration systems, number theory, and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem solving and critical thinking. Prerequisite: College Algebra or the equivalent.

 Approval Number ............................................................................................... 27.0101.56 19
 CIP Area ................................................................................................................Mathematics
 maximum SCH per student.......................................................................................... 6
 maximum SCH per course................................................................................................3
 maximum contact hours per course .......................................................................... 48
MATH 1351  Fundamentals of Mathematics II

(NOTE: This course replaces MATH 1336 and is a required part of the approved field of study curriculum for middle grades (4 through 8) teacher certification. This course may also be appropriate for early childhood education majors.)

Concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4 though 8) teacher certification. Prerequisite: MATH 1350, College Algebra or the equivalent.

Approval Number ............................................................................................................................. 27.0101.56 19
CIP Area .........................................................Mathematics
maximum SCH per student............................................................................................................................. 6
maximum SCH per course ......................................................................................................................... 3
maximum contact hours per course ........................................................................................................... 48

MATH 1342  Elementary Statistical Methods (3 SCH version, freshman level)
MATH 1442  Elementary Statistical Methods (4 SCH version, freshman level)
MATH 2342  Elementary Statistical Methods (3 SCH version, sophomore level)
MATH 2442  Elementary Statistical Methods (4 SCH version, sophomore level)

Presentation and interpretation of data, probability, sampling, correlation and regression, analysis of variance, and the use of statistical software.

Approval Number ............................................................................................................................. 27.0501.51 19
CIP Area ........................................................................................................................................ Mathematics
maximum SCH per student............................................................................................................................. 4
maximum SCH per course ......................................................................................................................... 4
maximum contact hours per course ........................................................................................................... 96

MATH 1348  Analytic Geometry

Lines, circles, and other conic sections; transformation of coordinates; polar coordinates; and parametric equations.

Approval Number ............................................................................................................................. 27.0101.55 19
CIP Area ........................................................................................................................................ Mathematics
maximum SCH per student............................................................................................................................. 3
maximum SCH per course ......................................................................................................................... 3
maximum contact hours per course ........................................................................................................... 48
MATH 2312  Precalculus Math *(3 SCH version)*
MATH 2412  Precalculus Math *(4 SCH version)*

Applications of algebra and trigonometry to the study of elementary functions and their graphs including polynomial, rational, exponential, logarithmic, and trigonometric functions. May include topics from analytical geometry.

Approval Number ................................................................. 27.0101.58 19  
CIP Area .................................................................................. Mathematics
maximum SCH per student ........................................................ 4
maximum SCH per course .......................................................... 4
maximum contact hours per course .......................................... 80

MATH 2313  Calculus I *(3 SCH version)*
MATH 2413  Calculus I *(4 SCH version)*
MATH 2513  Calculus I *(5 SCH version)*

MATH 2314  Calculus II *(3 SCH version)*
MATH 2414  Calculus II *(4 SCH version)*

MATH 2315  Calculus III *(3 SCH version)*
MATH 2415  Calculus III *(4 SCH version)*

MATH 2316  Calculus IV

MATH 2417  Accelerated Calculus I *(4 SCH version)*
MATH 2419  Accelerated Calculus II *(4 SCH version)*

Functions, limits, continuity, differentiation, integration, applications, sequences and series, vector analysis, partial differentiation, and multiple integration. This course may include topics in analytic geometry.

*(NOTE: a standard calculus sequence may consist of three or four courses; courses within a sequence may carry three, four, or five semester hours of credit; courses within the same sequence may carry different semester hour values, e.g. five SCH for Calculus I, four SCH for Calculus II, and three SCH for Calculus III. The Accelerated Calculus sequence, MATH 2417 & 2419, covers the same content as three- or four-semester sequences in a shortened format.)*

Approval Number ................................................................. 27.0101.59 19  
CIP Area .................................................................................. Mathematics
maximum SCH per student ........................................................ 12
maximum SCH per course .......................................................... 5
maximum contact hours per course .......................................... 96
MATH 2318  Linear Algebra (3 SCH version)
MATH 2418  Linear Algebra (4 SCH version)

Finite dimensional vector spaces, linear transformations and matrices, quadratic forms, and eigen values and eigen vectors.

Approval Number ............................................................................................... 27.0101.61 19
CIP Area ................................................................................................................Mathematics
maximum SCH per student........................................................................................ 4
maximum SCH per course ......................................................................................... 4
maximum contact hours per course ........................................................................... 64

MATH 2320  Differential Equations (3 SCH version)
MATH 2420  Differential Equations (4 SCH version)

Solutions of ordinary differential equations and applications.

Approval Number ............................................................................................... 27.0301.51 19
CIP Area ................................................................................................................Mathematics
maximum SCH per student........................................................................................ 4
maximum SCH per course ......................................................................................... 4
maximum contact hours per course ........................................................................... 64

MATH 2305  Discrete Mathematics (3 SCH version)
MATH 2405  Discrete Mathematics (4 SCH version)

Presentation and interpretation of data, probability, sampling, correlation and regression, analysis of variance, and the use of statistical software.

Approval Number ............................................................................................... 27.0501.51 19
CIP Area ................................................................................................................Mathematics
maximum SCH per student........................................................................................ 4
maximum SCH per course ......................................................................................... 4
maximum contact hours per course ........................................................................... 96

MUAP (APPLIED MUSIC)

Individual Instruction
(Course number under review.)

Individual instruction in voice or brass, percussion, woodwind, stringed, or keyboard instruments.

Approval Number ............................................................................................... 50.0903.54 26
CIP Area ..............................................................................................................Visual & Performing Arts
maximum SCH per student........................................................................................ 20
maximum SCH per course ....................................................................................... 3
maximum contact hours per course ........................................................................... 32

The common number format for MUAP courses is a 4 digit number. The 1st digit denotes the level of the course (1 for freshman, 2 for sophomore) and the 2nd digit represents the SCH value. A range of possible 3rd & 4th digits identifies the subject and course sequence.
MUEN (MUSIC ENSEMBLE)

The common number format for MUEN courses is a four digit number. The 1st digit denotes the level of the course (1 for freshman, 2 for sophomore) and the 2nd digit represents the SCH value. A range of possible 3rd & 4th digits identifies the subject and course sequence.

<table>
<thead>
<tr>
<th>Approval Number course</th>
<th>3rd &amp; 4th digits</th>
</tr>
</thead>
<tbody>
<tr>
<td>50.0903.55 26</td>
<td>Major (Large) Instrumental Ensembles 21 through 30</td>
</tr>
<tr>
<td>50.0903.56 26</td>
<td>Chamber (Small) Instrumental Ensembles 31 through 40</td>
</tr>
<tr>
<td>50.0903.57 26</td>
<td>Major (Large) Vocal Ensembles 41 through 50</td>
</tr>
<tr>
<td>50.0903.58 26</td>
<td>Chamber (Small) Vocal Ensembles 51 through 60</td>
</tr>
</tbody>
</table>

This arrangement allows institutions to assign up to 20 distinct numbers under each of the 4 CIP codes, for a total of 80 possible courses; no attempt has been made in the TCCN system to standardize individual numbers within these ranges.

Major (Large) Instrumental Ensembles

Concert band, marching band, campus band, laboratory band (jazz/stage), symphony or orchestral group.

Approval Number ................................................................. 50.0903.55 26
CIP Area ................................................................................ Visual & Performing Arts
maximum SCH per student .......................................................... 8
maximum SCH per course .......................................................... 2
maximum contact hours per course ............................................ 96

Chamber (Small) Instrumental Ensembles

Smaller instrumental ensembles: wind, string, percussion, piano, or laboratory (jazz, rock, fusion, or contemporary).

Approval Number ................................................................. 50.0903.56 26
CIP Area ................................................................................ Visual & Performing Arts
maximum SCH per student .......................................................... 8
maximum SCH per course .......................................................... 2
maximum contact hours per course ............................................ 64

Major (Large) Vocal Ensembles

Any major choral group, campus choir, chorus, or swing choir.

Approval Number ................................................................. 50.0903.57 26
CIP Area ................................................................................ Visual & Performing Arts
maximum SCH per student .......................................................... 8
maximum SCH per course .......................................................... 2
maximum contact hours per course ............................................ 96
Chamber (Small) Vocal Ensembles

Vocal ensemble, glee club, madrigals, or small swing choir.

Approval Number ................................................................. 50.0903.58 26
CIP Area ............................................................................ Visual & Performing Arts
maximum SCH per student ................................................... 8
maximum SCH per course .................................................... 2
maximum contact hours per course ..................................... 64

MUSI (MUSIC)

MUSI 1300  Foundations of Music (“Music Education” in TCCN Matrix)

MUSI 1104  Teaching Music in the Elementary School (1 SCH version)

Study of the basic fundamentals of music with an introduction to melodic, rhythmic, and harmonic instruments. Emphasis on participation in singing and reading music.

Approval Number ................................................................. 50.0904.54 26
CIP Area ............................................................................ Visual & Performing Arts
maximum SCH per student ................................................... 3
maximum SCH per course .................................................... 3
maximum contact hours per course ..................................... 80

MUSI 1301  Fundamentals of Music I (3 SCH version, keyboard-based)
MUSI 1101  Fundamentals of Music I (1 SCH version, keyboard-based)

MUSI 1302  Fundamentals of Music II (3 SCH version, keyboard-based)
MUSI 1102  Fundamentals of Music II (1 SCH version, keyboard-based)

MUSI 1303  Fundamentals of Music (single-semester course, guitar-based)

Introduction to the elements of music theory: scales, intervals, keys, triads, elementary ear training, keyboard harmony, notation, meter, and rhythm.

Approval Number ................................................................. 50.0904.55 26
CIP Area ............................................................................ Visual & Performing Arts
maximum SCH per student ................................................... 6
maximum SCH per course .................................................... 3
maximum contact hours per course ..................................... 48

MUSI 1306  Music Appreciation

Understanding music through the study of cultural periods, major composers, and musical elements. Illustrated with audio recordings and live performances.

Approval Number ................................................................. 50.0902.51 26
CIP Area ............................................................................ Visual & Performing Arts
maximum SCH per student ................................................... 3
maximum SCH per course .................................................... 3
maximum contact hours per course ..................................... 48
MUSI 1307  Music Literature (one semester version)
MUSI 1308  Music Literature I (3 SCH version)
MUSI 1309  Music Literature II (3 SCH version)

Survey of the principal musical forms and cultural periods as illustrated in the literature of major composers.

Approval Number .......................................................... 50.0902.52 26
CIP Area .......................................................... Visual & Performing Arts
maximum SCH per student .......................................................... 6
maximum SCH per course .......................................................... 3
maximum contact hours per course .............................................. 80

MUSI 1310  American Music

General survey of various styles of music in America. Topics may include jazz, ragtime, folk, rock, and contemporary art music.

Approval Number .......................................................... 50.0902.53 26
CIP Area .......................................................... Visual & Performing Arts
maximum SCH per student .......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course .............................................. 48

MUSI 1114  Keyboard Harmony I
MUSI 1115  Keyboard Harmony II

MUSI 2114  Keyboard Harmony III
MUSI 2115  Keyboard Harmony IV

MUSI 1211  Music Theory I (2 SCH version)
MUSI 1311  Music Theory I (3 SCH version)

MUSI 1212  Music Theory II (2 SCH version)
MUSI 1312  Music Theory II (3 SCH version)

Analysis and writing of tonal melody and diatonic harmony up to and including the chords. Analysis and writing of small compositional forms. Correlated study at the keyboard.

Approval Number .......................................................... 50.0904.51 26
CIP Area .......................................................... Visual & Performing Arts
maximum SCH per student .......................................................... 6
maximum SCH per course .......................................................... 3
maximum contact hours per course .............................................. 96
MUSI 1116  Elementary Sight Singing & Ear Training I (1 SCH version)
MUSI 1216  Elementary Sight Singing & Ear Training I (2 SCH version)
MUSI 1316  Elementary Sight Singing & Ear Training I (3 SCH version)

MUSI 1117  Elementary Sight Singing & Ear Training II (1 SCH version)
MUSI 1217  Elementary Sight Singing & Ear Training II (2 SCH version)
MUSI 1317  Elementary Sight Singing & Ear Training II (3 SCH version)

Singing tonal music in treble, bass, alto, and tenor clefs. Aural study, including dictation, of rhythm, melody, and diatonic harmony.

Approval Number ................................................................. 50.0904.56 26
CIP Area ............................................................... Visual & Performing Arts
maximum SCH per student ................................................................. 6
maximum SCH per course ................................................................. 3
maximum contact hours per course ................................................. 96

MUSI 1157  Opera Workshop I
MUSI 1158  Opera Workshop II
MUSI 2157  Opera Workshop III
MUSI 2158  Opera Workshop IV
MUSI 1258  Opera Workshop (single-semester course)

Performance of portions of or complete operas and the study of the integration of music, acting, and staging of an opera.

Approval Number ................................................................. 50.0908.52 26
CIP Area ............................................................... Visual & Performing Arts
maximum SCH per student ................................................................. 4
maximum SCH per course ................................................................. 2
maximum contact hours per course ................................................. 48

MUSI 1159  Musical Theater I
MUSI 2159  Musical Theater II
(Also see DRAM 1161 & 1162)

Study and performance of works from the musical theater repertoire.  (Cross-listed as DRAM 1161 & 1162)

Approval Number ................................................................. 50.0903.61 26
CIP Area ............................................................... Visual & Performing Arts
maximum SCH per student ................................................................. 2
maximum SCH per course ................................................................. 1
maximum contact hours per course ................................................. 80
MUSI 1160  Italian Diction  
MUSI 1161  English Diction  
MUSI 2160  German Diction  
MUSI 2161  French Diction  
(Also see MUSI 1162, 1165, 1262, & 2262)  
Study of phonetic sounds of the English, French, German, or Italian languages to promote the ability to sing in those languages.  (Cross-listed as MUSI 1160, 1161, 2160, & 2161)  
Approval Number ................................................................. 50.0908.53 26  
CIP Area ................................................................................. Visual & Performing Arts  
maximum SCH per student .......................................................... 4  
maximum SCH per course ............................................................ 2  
maximum contact hours per course .................................................. 32  

MUSI 1162  Vocal Diction I (1 SCH version, multiple languages)  
MUSI 1262  Vocal Diction I (2 SCH version, multiple languages)  
MUSI 1165  Vocal Diction II (1 SCH version, multiple languages)  
MUSI 2262  Vocal Diction II (2 SCH version, multiple languages)  
(Also see MUSI 1160, 1161, 2160, & 2161)  
Study of phonetic sounds of the English, French, German, or Italian languages to promote the ability to sing in those languages.  (Cross-listed as MUSI 1160, 1161, 2160, & 2161)  
Approval Number ................................................................. 50.0908.53 26  
CIP Area ................................................................................. Visual & Performing Arts  
maximum SCH per student .......................................................... 4  
maximum SCH per course ............................................................ 2  
maximum contact hours per course .................................................. 32  

MUSI 1163  Improvisation I (1 SCH version)  
MUSI 1263  Improvisation I (2 SCH version)  
MUSI 1164  Improvisation II (1 SCH version)  
MUSI 1264  Improvisation II (2 SCH version)  
MUSI 2163  Improvisation III  
MUSI 2164  Improvisation IV  
Materials and practices for improvisation or extemporaneous playing.  
Approval Number ................................................................. 50.0903.65 26  
CIP Area ................................................................................. Visual & Performing Arts  
maximum SCH per student .......................................................... 4  
maximum SCH per course ............................................................ 2  
maximum contact hours per course .................................................. 48
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSI 1166</td>
<td>Woodwind Class I</td>
<td>Class instruction in the fundamental techniques of playing and teaching woodwind instruments.</td>
</tr>
<tr>
<td>MUSI 1167</td>
<td>Woodwind Class II</td>
<td></td>
</tr>
<tr>
<td>MUSI 2166</td>
<td>Woodwind Class III</td>
<td></td>
</tr>
<tr>
<td>MUSI 2167</td>
<td>Woodwind Class IV</td>
<td></td>
</tr>
<tr>
<td>MUSI 1168</td>
<td>Brass Class I</td>
<td>Class instruction in the fundamental techniques of playing and teaching brass instruments.</td>
</tr>
<tr>
<td>MUSI 2168</td>
<td>Brass Class II</td>
<td></td>
</tr>
<tr>
<td>MUSI 1181</td>
<td>Piano Class I</td>
<td>Class instruction in the fundamentals of keyboard technique for beginning piano students.</td>
</tr>
<tr>
<td>MUSI 1182</td>
<td>Piano Class II</td>
<td></td>
</tr>
<tr>
<td>MUSI 2181</td>
<td>Piano Class III</td>
<td></td>
</tr>
<tr>
<td>MUSI 2182</td>
<td>Piano Class IV</td>
<td></td>
</tr>
<tr>
<td>MUSI 1183</td>
<td>Voice Class I</td>
<td>Class instruction in the fundamentals of singing including breathing, tone production, and diction. Designed for students with little or no previous voice training.</td>
</tr>
<tr>
<td>MUSI 1184</td>
<td>Voice Class II</td>
<td></td>
</tr>
<tr>
<td>MUSI 2183</td>
<td>Voice Class III</td>
<td></td>
</tr>
<tr>
<td>MUSI 2184</td>
<td>Voice Class IV</td>
<td></td>
</tr>
</tbody>
</table>

Approval Number: 50.0903.51 26
CIP Area: Visual & Performing Arts

maximum SCH per student: 4
maximum SCH per course: 1
maximum contact hours per course: 48
MUSI 1186  Composition I (1 SCH version)
MUSI 1286  Composition I (2 SCH version)
MUSI 1386  Composition I (3 SCH version, freshman level)

MUSI 1187  Composition II (1 SCH version)
MUSI 1287  Composition II (2 SCH version)
MUSI 2386  Composition II (3 SCH version, sophomore-level)

MUSI 2186  Composition III (1 SCH version)
MUSI 2286  Composition III (2 SCH version)

MUSI 2187  Composition IV (1 SCH version)

Individual or class instruction in music composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice.

Approval Number ............................................................................................... 50.0904.53 26
CIP Area ........................................................................................... Visual & Performing Arts
maximum SCH per student...................................................................................................... 6
maximum SCH per course....................................................................................................... 3
maximum contact hours per course ....................................................................................... 48

MUSI 1188  Percussion Class I
MUSI 2188  Percussion Class II

Class instruction in the fundamental techniques of playing and teaching percussion instruments.

Approval Number ............................................................................................... 50.0903.51 26
CIP Area ........................................................................................... Visual & Performing Arts
maximum SCH per student...................................................................................................... 4
maximum SCH per course....................................................................................................... 1
maximum contact hours per course ....................................................................................... 48

MUSI 1190  Strings Class I
MUSI 2190  Strings Class II

Class instruction in the fundamental techniques of playing and teaching stringed instruments.

(NOTE: Strings Class I was formerly MUSI 1189 and Strings Class II was formerly MUSI 2189.)

Approval Number ............................................................................................... 50.0903.51 26
CIP Area ........................................................................................... Visual & Performing Arts
maximum SCH per student...................................................................................................... 4
maximum SCH per course....................................................................................................... 1
maximum contact hours per course ....................................................................................... 48
### MUSI 1290   Electronic Music I (2 SCH version)
### MUSI 1390   Electronic Music I (3 SCH version)

### MUSI 1291   Electronic Music II (2 SCH version)
### MUSI 1391   Electronic Music II (3 SCH version)

Introduction to the use of synthesizers, computers, sequencing and music printing software, multi-track recorders and other MIDI (Music Instrument Digital Interface) devices in the notation, arrangement, composition and performance of music. Prerequisite should be either the completion of a Music Fundamentals, Music Theory, Private Piano, or Class Piano Course.

- Approval Number: 50.0904.58 26
- CIP Area: Visual & Performing Arts
- Maximum SCH per student: 6
- Maximum SCH per course: 3
- Maximum contact hours per course: 48

### MUSI 1192   Guitar Class I
### MUSI 1193   Guitar Class II
### MUSI 2192   Guitar Class III
### MUSI 2193   Guitar Class IV

Class instruction in the fundamental techniques of playing and teaching guitar.

- Approval Number: 50.0903.51 26
- CIP Area: Visual & Performing Arts
- Maximum SCH per student: 4
- Maximum SCH per course: 1
- Maximum contact hours per course: 48

### MUSI 2114   Music Theory III (1 SCH version)
### MUSI 2211   Music Theory III (2 SCH version)
### MUSI 2311   Music Theory III (3 SCH version)

### MUSI 2115   Music Theory IV (1 SCH version)
### MUSI 2212   Music Theory IV (2 SCH version)
### MUSI 2312   Music Theory IV (3 SCH version)

Advanced harmony part writing and keyboard analysis and writing of more advanced tonal harmony including chromaticism and extended tertian structures. Introduction to 20th century compositional procedures and survey of the traditional large forms of composition. Correlated study at the keyboard.

- Approval Number: 50.0904.52 26
- CIP Area: Visual & Performing Arts
- Maximum SCH per student: 6
- Maximum SCH per course: 3
- Maximum contact hours per course: 96
MUSI 2116  Advanced Sight Singing & Ear Training I (1 SCH version)
MUSI 2216  Advanced Sight Singing & Ear Training I (2 SCH version)
MUSI 2117  Advanced Sight Singing & Ear Training II (1 SCH version)
MUSI 2217  Advanced Sight Singing & Ear Training II (2 SCH version)
Singing more difficult tonal music including modal, ethnic, and 20th century materials. Aural study, including dictation, of more complex rhythm, melody, chromatic harmony, and extended tertian structures.
Approval Number ................................................................. 50.0904.57 26
CIP Area .................................................................................. Visual & Performing Arts
maximum SCH per student .......................................................... 6
maximum SCH per course ........................................................... 3
maximum contact hours per course .............................................. 96
MUSI 2189  Academic Cooperative (1 SCH version)
MUSI 2289  Academic Cooperative (2 SCH version)
MUSI 2389  Academic Cooperative (3 SCH version)
An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of music.
Approval Number ................................................................. 24.0103.52 12
CIP Area .................................................................................. Interdisciplinary
maximum SCH per student .......................................................... 3
maximum SCH per course ........................................................... 3
maximum contact hours per course .............................................. 112
(Note: The course number for the one semester credit hour version of the academic cooperative in music was formerly designated as Strings Class II.)

PHED (PHYSICAL EDUCATION)
(Note: “KINE” (Kinesiology) may be used as an alternate Common Numbering rubric for PHED courses.)

Physical Activities
Instruction and participation in physical and recreational activities. (Physical Fitness and Sport majors may have the option of eight credits.)
(Note: Any number in the ranges 1100-1150 and 2100-2150 may be used for Physical Education activity, as opposed to theory/classroom, courses. Because such courses are so numerous and their specific course equivalency typically is not a significant transfer credit issue, no attempt has been made in the ACGM and the TCCN Matrix to standardize individual numbers within these ranges.)
Approval Number ................................................................. 36.0108.51 23
CIP Area .................................................................................. Leisure & Recreational Activities
maximum SCH per student .......................................................... 4 (non-major); 8 (major)
maximum SCH per course ........................................................... 1
maximum contact hours per course .............................................. 48
Recreational Dance

Instruction and participation in folk, social, tap, or other dance forms.

( NOTE: These courses are recreational in nature and should bear the KINE/PHED prefix instead of the DANC prefix.)

Approval Number ......................................................... 36.0114.51 23
CIP Area .......................................................... Leisure & Recreational Activities
maximum SCH per student .................................................. 4 (non-major); 8 (major)
maximum SCH per course .................................................. 2
maximum contact hours per course ........................................ 64

PHED 1301 Introduction to Physical Fitness & Sport
(Also see PHED 1164, 1238 & 1301)

Orientation to the field of physical fitness and sport. Includes the study and practice of activities and principles that promote physical fitness. (Cross-listed as PHED 1164, 1238, & 1301)

Approval Number ......................................................... 31.0501.52 23
CIP Area .......................................................... Recreation & Physical Fitness
maximum SCH per student .................................................. 3
maximum SCH per course .................................................. 3
maximum contact hours per course ........................................ 48

PHED 1304 Personal/Community Health I (may also be single-semester course)
PHED 1305 Personal/Community Health II

Investigation of the principles and practices in relation to personal and community health.

Approval Number ......................................................... 51.0301.51 16
CIP Area .......................................................... Health Sciences
maximum SCH per student .................................................. 6
maximum SCH per course .................................................. 3
maximum contact hours per course ........................................ 48

PHED 1206 First Aid (2 SCH version)
PHED 1306 First Aid (3 SCH version)
(Also see PHED 1166)

Instruction in and practice of first aid techniques. (Cross-listed as PHED 1166)

Approval Number ......................................................... 51.0301.53 16
CIP Area .......................................................... Health Sciences
maximum SCH per student .................................................. 3
maximum SCH per course .................................................. 3
maximum contact hours per course ........................................ 48
PHED 1308   Sports Officiating I
PHED 1309   Sports Officiating II

Instruction in rules, interpretation, and mechanics of officiating selected sports.

Approval Number ................................................................. 12.0204.51 09
CIP Area ................................................................. Personal & Miscellaneous Services
maximum SCH per student ................................................................. 6
maximum SCH per course ................................................................. 3
maximum contact hours per course ................................................................. 64

PHED 1321   Coaching/Sports/Athletics I
PHED 1322   Coaching/Sports/Athletics II

Study of the history, theories, philosophies, rules, and terminology of competitive sports. Includes coaching techniques.

Approval Number ................................................................. 31.0506.51 23
CIP Area ................................................................. Recreation & Physical Fitness
maximum SCH per student ................................................................. 6
maximum SCH per course ................................................................. 3
maximum contact hours per course ................................................................. 64

PHED 1331   Physical Education for Elementary Education Majors

An overview of the program of activities in elementary school physical education. Includes the study and practice of activities and principles that promote physical fitness with an emphasis on historical development, philosophical implications, physical fitness, and kinesiology.

Approval Number ................................................................. 31.0501.52 23
CIP Area ................................................................. Recreation & Physical Fitness
maximum SCH per student ................................................................. 3
maximum SCH per course ................................................................. 3
maximum contact hours per course ................................................................. 48

PHED 1332   Game Skills
PHED 1333   Rhythm Skills
PHED 1336   Introduction to Recreation I
PHED 1337   Introduction to Recreation II

Fundamental theory and concepts of recreational activities with emphasis on programs, planning, and leadership.

Approval Number ................................................................. 31.0101.51 23
CIP Area ................................................................. Recreation & Physical Fitness
maximum SCH per student ................................................................. 6
maximum SCH per course ................................................................. 3
maximum contact hours per course ................................................................. 48
PHED 1238  Introduction to Physical Fitness & Sport
(Also see PHED 1164 & 1301)
Orientation to the field of physical fitness and sport. Includes the study and practice of activities and principles that promote physical fitness. (Cross-listed as PHED 1164 & 1301)

Approval Number ............................................................... 31.0501.52 23
CIP Area ........................................................................ Recreation & Physical Fitness
maximum SCH per student....................................................... 2
maximum SCH per course ....................................................... 2
maximum contact hours per course ........................................... 48

PHED 1338  Concepts of Physical Fitness
Concepts and use of selected physiological variables of fitness, individual testing and consultation, and the organization of sports and fitness programs.

Approval Number ............................................................... 31.0501.51 23
CIP Area ........................................................................ Recreation & Physical Fitness
maximum SCH per student....................................................... 3
maximum SCH per course ....................................................... 3
maximum contact hours per course ........................................... 96

PHED 1165  Drug Use & Abuse (1 SCH version)
PHED 1346  Drug Use & Abuse (3 SCH version)
(Also see PHED 1165 & SOCI 2340)
Study of the use and abuse of drugs in today's society. Emphasizes the physiological, sociological, and psychological factors. (Cross-listed as PHED 1165 & SOCI 2340)

Approval Number ............................................................... 51.0301.52 16
CIP Area ........................................................................ Health Sciences
maximum SCH per student....................................................... 3
maximum SCH per course ....................................................... 3
maximum contact hours per course ........................................... 48

PHED 1151  Scuba Diving I (1 SCH version)
PHED 1251  Scuba Diving I (2 SCH version)

PHED 1152  Scuba Diving II (1 SCH version)
PHED 1252  Scuba Diving II (2 SCH version)

PHED 1153  Lifeguard Training (1 SCH version)
PHED 1253  Lifeguard Training (2 SCH version)
Participation and instruction in advanced aquatic activities. Prerequisite: demonstrated swimming skills.

Approval Number ............................................................... 36.0108.53 23
CIP Area ........................................................................ Leisure & Recreational Activities
maximum SCH per student....................................................... 2
maximum SCH per course ....................................................... 2
maximum contact hours per course ........................................... 64
PHED 1164  Introduction to Physical Fitness & Sport
(Also see PHED 1238 & 1301)
Orientation to the field of physical fitness and sport. Includes the study and practice of activities and principles that promote physical fitness.  (*Cross-listed as PHED 1238 & 1301*)
Approval Number .......................................................... 31.0501.52 23
CIP Area .......................................................... Recreation & Physical Fitness
maximum SCH per student .......................................................... 1
maximum SCH per course .......................................................... 1
maximum contact hours per course .................................................. 48

PHED 1166  First Aid
(Also see PHED 1206 & 1306)
Instruction in and practice of first aid techniques.  (*Cross-listed as PHED 1206 & 1306*)
Approval Number .......................................................... 51.0301.53 16
CIP Area .......................................................... Health Sciences
maximum SCH per student .......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course .................................................. 48

PHED 2155  Water Safety *(1 SCH version)*
PHED 2255  Water Safety *(2 SCH version)*
Participation and instruction in advanced aquatic activities. Prerequisite: demonstrated swimming skills.
Approval Number .......................................................... 36.0108.53 23
CIP Area .......................................................... Leisure & Recreational Activities
maximum SCH per student .......................................................... 2
maximum SCH per course .......................................................... 2
maximum contact hours per course .................................................. 64

PHIL (PHILOSOPHY)

PHIL 1301  Introduction to Philosophy
Introduction to the study of ideas and their logical structure, including arguments and investigations about abstract and real phenomena. Includes introduction to the history, theories, and methods of reasoning.
Approval Number .......................................................... 38.0101.51 12
CIP Area .......................................................... Philosophy & Religion
maximum SCH per student .......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course .................................................. 48
PHIL 1304  Introduction to World Religions
A comparative study of various world religions.
Approval Number ................................................................. 38.0201.52 12
CIP Area ........................................................................Philosophy & Religion
maximum SCH per student..................................................... 3
maximum SCH per course ....................................................... 3
maximum contact hours per course ....................................... 48

PHIL 1316  History of Religions I
PHIL 1317  History of Religions II
An historical survey of major religions.
Approval Number ................................................................. 38.0201.52 12
CIP Area ........................................................................Philosophy & Religion
maximum SCH per student..................................................... 6
maximum SCH per course ....................................................... 3
maximum contact hours per course ....................................... 48

PHIL 2303  Introduction to Logic
Nature and methods of clear and critical thinking and methods of reasoning such as
deduction, induction, scientific reasoning, and fallacies.
Approval Number ................................................................. 38.0101.52 12
CIP Area ........................................................................Philosophy & Religion
maximum SCH per student..................................................... 3
maximum SCH per course ....................................................... 3
maximum contact hours per course ....................................... 48

PHIL 2306  Introduction to Ethics
Classical and contemporary theories concerning the good life, human conduct in society, and
moral and ethical standards.
Approval Number ................................................................. 38.0101.53 12
CIP Area ........................................................................Philosophy & Religion
maximum SCH per student..................................................... 3
maximum SCH per course ....................................................... 3
maximum contact hours per course ....................................... 48

PHIL 2307  Intro to Social & Political Philosophy
Critical examination of the major theories concerning the organization of societies and
government.
Approval Number ................................................................. 38.0101.54 12
CIP Area ........................................................................Philosophy & Religion
maximum SCH per student..................................................... 3
maximum SCH per course ....................................................... 3
maximum contact hours per course ....................................... 48
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>PHIL 2316</td>
<td>History of Classical &amp; Modern Philosophy I</td>
<td>Study of major philosophers and philosophical systems from ancient, through</td>
</tr>
<tr>
<td></td>
<td></td>
<td>medieval, to modern times.</td>
</tr>
<tr>
<td>PHIL 2317</td>
<td>History of Classical &amp; Modern Philosophy II</td>
<td></td>
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<tr>
<td>PHIL 2318</td>
<td>Contemporary Philosophy (single-semester course)</td>
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<tr>
<td>PHIL 2321</td>
<td>Philosophy of Religion</td>
<td>A critical investigation of major religious ideas and experiences.</td>
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<tr>
<td>PHIL 2189</td>
<td>Academic Cooperative (1 SCH version)</td>
<td>An instructional program designed to integrate on-campus study with</td>
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<tr>
<td></td>
<td></td>
<td>practical hands-on work experience. In conjunction with class seminars,</td>
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<td></td>
<td>the individual student will set specific goals and objectives in the study</td>
</tr>
<tr>
<td></td>
<td></td>
<td>of philosophy.</td>
</tr>
<tr>
<td>PHIL 2289</td>
<td>Academic Cooperative (2 SCH version)</td>
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</tr>
<tr>
<td>PHIL 2389</td>
<td>Academic Cooperative (3 SCH version)</td>
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Approval Number: 38.0101.55 12
CIP Area: Philosophy & Religion
maximum SCH per student: 6
maximum SCH per course: 3
maximum contact hours per course: 48

Approval Number: 38.0201.53 12
CIP Area: Philosophy & Religion
maximum SCH per student: 3
maximum SCH per course: 3
maximum contact hours per course: 48

Approval Number: 24.0103.52 12
CIP Area: Interdisciplinary
maximum SCH per student: 3
maximum SCH per course: 3
maximum contact hours per course: 112
### PHYS (PHYSICS)

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<tbody>
<tr>
<td>PHYS 1401</td>
<td>College Physics I (lecture + lab)</td>
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<tr>
<td>PHYS 1301</td>
<td>College Physics I (lecture)</td>
<td></td>
</tr>
<tr>
<td>PHYS 1101</td>
<td>College Physics Laboratory I (lab)</td>
<td></td>
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</tbody>
</table>

**PHYS 1402** College Physics II (lecture + lab)

**PHYS 1302** College Physics II (lecture)

**PHYS 1102** College Physics Laboratory II (lab)

Algebra-level physics sequence, with laboratories, that includes study of mechanics, heat, waves, electricity and magnetism, and modern physics.

Approval Number ................................................................. 40.0801.53 03

CIP Area ................................................................. Physical Sciences

maximum SCH per student................................................................. 8

maximum SCH per course ................................................................. 4

maximum contact hours per course ................................................. 112

<table>
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<tr>
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<tbody>
<tr>
<td>PHYS 1405</td>
<td>Elementary Physics I (lecture + lab)</td>
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</tr>
<tr>
<td>PHYS 1305</td>
<td>Elementary Physics I (lecture)</td>
<td></td>
</tr>
<tr>
<td>PHYS 1105</td>
<td>Elementary Physics Laboratory I (lab)</td>
<td></td>
</tr>
</tbody>
</table>

**PHYS 1407** Elementary Physics II (lecture + lab)

**PHYS 1307** Elementary Physics II (lecture)

**PHYS 1107** Elementary Physics Laboratory II (lab)

<table>
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<tr>
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<th>Type</th>
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<tbody>
<tr>
<td>PHYS 1410</td>
<td>Elementary Physics (single-semester course, lecture + lab)</td>
<td></td>
</tr>
<tr>
<td>PHYS 1310</td>
<td>Elementary Physics (single-semester course, lecture)</td>
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</tr>
<tr>
<td>PHYS 1110</td>
<td>Elementary Physics (single-semester course, lab)</td>
<td></td>
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</tbody>
</table>

Conceptual level survey of topics in physics intended for liberal arts and other non-science majors. May or may not include a laboratory.

Approval Number ................................................................. 40.0801.51 03

CIP Area ................................................................. Physical Sciences

maximum SCH per student................................................................. 8

maximum SCH per course ................................................................. 4

maximum contact hours per course ................................................. 96
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<tr>
<td>PHYS 1311</td>
<td>Introductory Astronomy I</td>
<td>(lecture)</td>
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<tr>
<td>PHYS 1111</td>
<td>Introductory Astronomy Laboratory I</td>
<td>(lab)</td>
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<td>PHYS 1412</td>
<td>Introductory Astronomy II</td>
<td>(lecture + lab)</td>
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<td>PHYS 1312</td>
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<td>PHYS 1112</td>
<td>Introductory Astronomy Laboratory II</td>
<td>(lab)</td>
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<tr>
<td>PHYS 1415</td>
<td>Physical Science I</td>
<td>(lecture + lab)</td>
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<tr>
<td>PHYS 1315</td>
<td>Physical Science I</td>
<td>(lecture)</td>
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<tr>
<td>PHYS 1115</td>
<td>Physical Science Laboratory I</td>
<td>(lab)</td>
</tr>
<tr>
<td>PHYS 1417</td>
<td>Physical Science II</td>
<td>(lecture + lab)</td>
</tr>
<tr>
<td>PHYS 1317</td>
<td>Physical Science II</td>
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</tr>
<tr>
<td>PHYS 1117</td>
<td>Physical Science Laboratory II</td>
<td>(lab)</td>
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</table>

Study of the solar system, stars, and galaxies. May or may not include a laboratory.

Approval Number ............................................................................................... 40.0201.51 03
CIP Area ........................................................................................................ Physical Sciences
maximum SCH per student.......................................................................................... 8
maximum SCH per course............................................................................................. 4
maximum contact hours per course ............................................................................. 96

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<td>PHYS 1415</td>
<td>Physical Science I</td>
<td>(lecture + lab)</td>
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<td>PHYS 1315</td>
<td>Physical Science I</td>
<td>(lecture)</td>
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<td>PHYS 1115</td>
<td>Physical Science Laboratory I</td>
<td>(lab)</td>
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<tr>
<td>PHYS 1417</td>
<td>Physical Science II</td>
<td>(lecture + lab)</td>
</tr>
<tr>
<td>PHYS 1317</td>
<td>Physical Science II</td>
<td>(lecture)</td>
</tr>
<tr>
<td>PHYS 1117</td>
<td>Physical Science Laboratory II</td>
<td>(lab)</td>
</tr>
</tbody>
</table>

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology. May or may not include a laboratory.

Approval Number ............................................................................................... 40.0101.51 03
CIP Area ........................................................................................................ Physical Sciences
maximum SCH per student.......................................................................................... 8
maximum SCH per course............................................................................................. 4
maximum contact hours per course ............................................................................. 96

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<td>PHYS 2425</td>
<td>University Physics I</td>
<td>(lecture + lab)</td>
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<tr>
<td>PHYS 2325</td>
<td>University Physics I</td>
<td>(lecture)</td>
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<td>PHYS 2125</td>
<td>University Physics Laboratory I</td>
<td>(lab)</td>
</tr>
<tr>
<td>PHYS 2426</td>
<td>University Physics II</td>
<td>(lecture + lab)</td>
</tr>
<tr>
<td>PHYS 2326</td>
<td>University Physics II</td>
<td>(lecture)</td>
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<td>PHYS 2126</td>
<td>University Physics Laboratory II</td>
<td>(lab)</td>
</tr>
<tr>
<td>PHYS 2427</td>
<td>University Physics III</td>
<td>(3rd semester course, lecture + lab)</td>
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Calculus-level physics sequence, with laboratories, that includes study of mechanics, heat, waves, electricity and magnetism.

Approval Number ............................................................................................... 40.0801.54 03
CIP Area ........................................................................................................ Physical Sciences
maximum SCH per student......................................................................................... 12
maximum SCH per course............................................................................................ 4
maximum contact hours per course .......................................................................... 112
PHYS 2189  Academic Cooperative (1 SCH version)
PHYS 2289  Academic Cooperative (2 SCH version)
PHYS 2389  Academic Cooperative (3 SCH version)

An instructional program designed to integrate on-campus study with practical hands-on work experience in the physical sciences. In conjunction with class seminars, the individual students will set specific goals and objectives in the scientific study of inanimate objects, processes of matter and energy, and associated phenomena.

Approval Number ............................................................................................... 40.0101.53 03
CIP Area ........................................................................................................ Physical Sciences
maximum SCH per student................................................................................. 3
maximum SCH per course............................................................................... 3
maximum contact hours per course ............................................................... 112

PORT (PORTUGUESE LANGUAGE)
PORT 1311  Beginning Portuguese I (1st semester Portuguese, 3 SCH version)
PORT 1411  Beginning Portuguese I (1st semester Portuguese, 4 SCH version)
PORT 1511  Beginning Portuguese I (1st semester Portuguese, 5 SCH version)
PORT 1312  Beginning Portuguese II (2nd semester Portuguese, 3 SCH version)
PORT 1412  Beginning Portuguese II (2nd semester Portuguese, 4 SCH version)
PORT 1512  Beginning Portuguese II (2nd semester Portuguese, 5 SCH version)

Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

Approval Number ............................................................................................... 16.0904.51 13
CIP Area ........................................................................................................ Foreign Languages
maximum SCH per student................................................................................. 10
maximum SCH per course............................................................................... 5
maximum contact hours per course ............................................................... 112

PORT 2311  Intermediate Portuguese I (3rd semester Portuguese)
PORT 2312  Intermediate Portuguese II (4th semester Portuguese)

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture.

Approval Number ............................................................................................... 16.0904.52 13
CIP Area ........................................................................................................ Foreign Languages
maximum SCH per student................................................................................. 6
maximum SCH per course............................................................................... 3
maximum contact hours per course ............................................................... 80
PSYC (PSYCHOLOGY)

PSYC 1300    Learning Framework
(Also see EDUC 1300)

A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned.  (Cross-listed as EDUC 1300)

(NOTE: While traditional study skills courses include some of the same learning strategies – e.g., note-taking, reading, test preparation etc. – as learning framework courses, the focus of study skills courses is solely or primarily on skill acquisition. Study skills courses, which are not under-girded by scholarly models of the learning process, are not considered college-level and therefore are distinguishable from Learning Framework courses.)

Approval Number ................................................................. 42.0301.51 25
CIP Area .............................................................................. Psychology
maximum SCH per student...................................................... 3
maximum SCH per course ........................................................ 3
maximum contact hours per course ............................................. 48

PSYC 2301    General Psychology

Survey of major topics in psychology. Introduces the study of behavior and the factors that determine and affect behavior.

Approval Number ................................................................. 42.0101.51 25
CIP Area .............................................................................. Psychology
maximum SCH per student...................................................... 3
maximum SCH per course ........................................................ 3
maximum contact hours per course ............................................. 48

PSYC 2302    Applied Psychology
PSYC 2303    Business Psychology

Survey of the applications of psychological knowledge and methods in such fields as business, industry, education, medicine, law enforcement, social work, and government work.

Approval Number ................................................................. 42.0101.52 25
CIP Area .............................................................................. Psychology
maximum SCH per student...................................................... 3
maximum SCH per course ........................................................ 3
maximum contact hours per course ............................................. 48
PSYC 2306  Human Sexuality
(Also see SOCI 2306)
Study of the psychological, sociological, and physiological aspects of human sexuality.  
(Cross-listed as SOCI 2306)
Approval Number ................................................................. 42.0101.53 25
CIP Area ................................................................. Psychology
maximum SCH per student .......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course ............................................... 48

PSYC 2307  Adolescent Psychology I
PSYC 2308  Child Psychology
PSYC 2309  Child Guidance & Self
PSYC 2310  Early Childhood
PSYC 2311  Adult Development
PSYC 2312  Human Development
PSYC 2313  Adolescent Psychology II
PSYC 2314  Lifespan Growth & Development
Study of the relationship of the physical, emotional, social and mental factors of growth and development of children and throughout the lifespan.
Approval Number ................................................................. 42.0701.51 25
CIP Area ................................................................. Psychology
maximum SCH per student .......................................................... 6
maximum SCH per course .......................................................... 3
maximum contact hours per course ............................................... 48

PSYC 2315  Psychology of Adjustment
PSYC 1301  Human Relations
Study of the processes involved in adjustment of individuals to their personal and social environments.
Approval Number ................................................................. 42.0101.56 25
CIP Area ................................................................. Psychology
maximum SCH per student .......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course ............................................... 48

PSYC 2316  Psychology of Personality
Study of various approaches to determinants, development, and assessment of personality.
Approval Number ................................................................. 42.0101.57 25
CIP Area ................................................................. Psychology
maximum SCH per student .......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course ............................................... 48
PSYC 2317  Statistical Methods in Psychology

Study of statistical methods used in psychological research, assessment, and testing. Includes the study of measures of central tendency and variability, statistical inference, correlation and regression as these apply to psychology.

Approval Number ............................................................................................... 42.0101.52 25
CIP Area ..................................................................................................................Psychology
maximum SCH per student....................................................................................... 3
maximum SCH per course ....................................................................................... 3
maximum contact hours per course ......................................................................... 48

PSYC 2318  Juvenile Delinquency

Study of individual behavior within the social environment. May include topics such as the socio-psychological process, attitude formation and change, interpersonal relations, and group processes.

Approval Number ............................................................................................... 42.1601.51 25
CIP Area ..................................................................................................................Psychology
maximum SCH per student....................................................................................... 3
maximum SCH per course ....................................................................................... 3
maximum contact hours per course ......................................................................... 48

PSYC 2319  Social Psychology
(Also see SOCI 2336)

Study of individual behavior within the social environment. May include topics such as the socio-psychological process, attitude formation and change, interpersonal relations, and group processes.  (Cross-listed as SOCI 2326)

Approval Number ............................................................................................... 42.1601.51 25
CIP Area ..................................................................................................................Psychology
maximum SCH per student....................................................................................... 3
maximum SCH per course ....................................................................................... 3
maximum contact hours per course ......................................................................... 48

PSYC 2189  Academic Cooperative (1 SCH version)
PSYC 2289  Academic Cooperative (2 SCH version)
PSYC 2389  Academic Cooperative (3 SCH version)

An instructional program designed to integrate on-campus study with practical hands-on experience in psychology. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions.

Approval Number ............................................................................................... 45.0101.51 25
CIP Area ............................................................................................................Social Sciences
maximum SCH per student....................................................................................... 3
maximum SCH per course ....................................................................................... 3
maximum contact hours per course ........................................................................ 112
REAL (REAL ESTATE)

REAL 1301  Principles of Real Estate

The study of basic principles of land economics, the mortgage money market, real estate terminology, instruments, relationships, promotion, regulations, and planning.

Approval Number .......................................................... 52.1501.51 04
CIP Area ................................................................. Business, Management, & Administrative Support
maximum SCH per student ........................................... 3
maximum SCH per course ............................................. 3
maximum contact hours per course ................................ 48

RUSS (RUSSIAN LANGUAGE)

RUSS 1311  Beginning Russian I (1st semester Russian, 3 SCH version)
RUSS 1411  Beginning Russian I (1st semester Russian, 4 SCH version)
RUSS 1511  Beginning Russian I (1st semester Russian, 5 SCH version)

RUSS 1312  Beginning Russian II (2nd semester Russian, 3 SCH version)
RUSS 1412  Beginning Russian II (2nd semester Russian, 4 SCH version)
RUSS 1512  Beginning Russian II (2nd semester Russian, 5 SCH version)

Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

Approval Number .......................................................... 16.0402.51 13
CIP Area ........................................................................ Foreign Languages
maximum SCH per student ........................................... 10
maximum SCH per course ............................................. 5
maximum contact hours per course ................................ 112

RUSS 2311  Intermediate Russian I (3rd semester Russian)
RUSS 2312  Intermediate Russian II (4th semester Russian)

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture.

Approval Number .......................................................... 16.0402.52 13
CIP Area ........................................................................ Foreign Languages
maximum SCH per student ........................................... 6
maximum SCH per course ............................................. 3
maximum contact hours per course ................................ 80
SGNL (AMERICAN SIGN LANGUAGE)

(NOTE: According to the Texas Education Code, section 51.303(c), “American Sign Language is recognized as a language, and any state institute of higher education may offer an elective course in American Sign Language. A student is entitled to count credit received for a course in American Sign Language toward satisfaction of a foreign language requirement of the institution of higher education where it is offered.” The 1990 Classification of Instructional Programs Manual defines American Sign Language as a health science.)

SGNL 1201 Beginning American Sign Language I (1st semester ASL, 2 SCH version)
SGNL 1301 Beginning American Sign Language I (1st semester ASL, 3 SCH version)
SGNL 1401 Beginning American Sign Language I (1st semester ASL, 4 SCH version)
SGNL 1501 Beginning American Sign Language I (1st semester ASL, 5 SCH version)

SGNL 1202 Beginning American Sign Language II (2nd semester ASL, 2 SCH version)
SGNL 1302 Beginning American Sign Language II (2nd semester ASL, 3 SCH version)
SGNL 1402 Beginning American Sign Language II (2nd semester ASL, 4 SCH version)
SGNL 1502 Beginning American Sign Language II (2nd semester ASL, 5 SCH version)

Introduction to American Sign Language covering finger spelling, vocabulary, and basic sentence structure in preparing individuals to interpret oral speech for the hearing impaired.

Approval Number ............................................................................................... 51.0205.51 16
CIP Area ...........................................................................................................Health Sciences
maximum SCH per student ..................................................................................... 10
maximum SCH per course ....................................................................................... 5
maximum contact hours per course ........................................................................ 112

SGNL 2301 Intermediate American Sign Language I (3rd semester ASL)
SGNL 2302 Intermediate American Sign Language II (4th semester ASL)

Review and application of conversational skills in American Sign Language; interpreting from signing to voice as well as from voice to signing. Introduction to American Sign Language literature and folklore.

Approval Number ............................................................................................... 51.0205.52 16
CIP Area ............................................................................................................Foreign Languages
maximum SCH per student ..................................................................................... 6
maximum SCH per course ....................................................................................... 3
maximum contact hours per course ........................................................................ 80

SOCI (SOCIOLOGY)

SOCI 1301 Introductory Sociology

Introduction to the concepts and principles used in the study of group life, social institutions, and social processes.

Approval Number ............................................................................................... 45.1101.51 25
CIP Area ...........................................................................................................Social Sciences
maximum SCH per student ..................................................................................... 3
maximum SCH per course ....................................................................................... 3
maximum contact hours per course ........................................................................ 48
SOCI 1306  Social Problems

Application of sociological principles to the major problems of contemporary society such as inequality, crime and violence, substance abuse, deviance, or family problems.

Approval Number ................................................................. 45.1101.52 25
CIP Area ..............................................................Social Sciences
maximum SCH per student................................................................. 3
maximum SCH per course ................................................................. 3
maximum contact hours per course ................................................. 48

SOCI 2301  Marriage & the Family


Approval Number ................................................................. 45.1101.54 25
CIP Area ..............................................................Social Sciences
maximum SCH per student................................................................. 3
maximum SCH per course ................................................................. 3
maximum contact hours per course ................................................. 48

SOCI 2306  Human Sexuality
(Also see PSYC 2306)

Study of the psychological, sociological, and physiological aspects of human sexuality.
(Cross-listed as PSYC 2306)

Approval Number ................................................................. 42.0101.53 25
CIP Area ..........................................................Psychology
maximum SCH per student................................................................. 3
maximum SCH per course ................................................................. 3
maximum contact hours per course ................................................. 48

SOCI 2319  Minority Studies I
SOCI 2320  Minority Studies II

Historical, economic, social, and cultural development of minority groups. May include African-American, Mexican American, Asian American, and Native American issues.

Approval Number ................................................................. 45.1101.53 25
CIP Area ..............................................................Social Sciences
maximum SCH per student................................................................. 6
maximum SCH per course ................................................................. 3
maximum contact hours per course ................................................. 48
SOCI 2326   Social Psychology  
(Also see PSYC 2319)  
Study of individual behavior within the social environment. May include topics such as the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. *(Cross-listed as PSYC 2319)*  
Approval Number ................................................................. 42.1601.51 25  
CIP Area .........................................................................................Psychology  
maximum SCH per student .......................................................... 3  
maximum SCH per course ............................................................ 3  
maximum contact hours per course ............................................. 48

SOCI 2336   Criminology  
SOCI 2339   Juvenile Delinquency  
Current theories and empirical research pertaining to crime and criminal behavior and its causes, methods of prevention, systems of punishment, and rehabilitation.  
Approval Number ................................................................. 45.0401.51 25  
CIP Area .......................................................................................Social Sciences  
maximum SCH per student .......................................................... 3  
maximum SCH per course ............................................................ 3  
maximum contact hours per course ............................................. 48

SOCI 2340   Drug Use & Abuse  
(Also see PHED 1165 & PHED 1346)  
Study of the use and abuse of drugs in today's society. Emphasizes the physiological, sociological, and psychological factors. *(Cross-listed as PHED 1165 & PHED 1346)*  
Approval Number ................................................................. 51.0301.52 16  
CIP Area .......................................................................................Health Sciences  
maximum SCH per student .......................................................... 3  
maximum SCH per course ............................................................ 3  
maximum contact hours per course ............................................. 48

SOCI 2189   Academic Cooperative *(1 SCH version)*  
SOCI 2289   Academic Cooperative *(2 SCH version)*  
SOCI 2389   Academic Cooperative *(3 SCH version)*  
An instructional program designed to integrate on-campus study with practical hands-on experience in sociology. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions.  
Approval Number ................................................................. 45.0101.51 25  
CIP Area .......................................................................................Social Sciences  
maximum SCH per student .......................................................... 3  
maximum SCH per course ............................................................ 3  
maximum contact hours per course ............................................. 112
SOCW (SOCIAL WORK)

SOCW 2361 Introduction to Social Work

Development of the philosophy and practice of social work in the United States, survey of
the fields and techniques of social work.

Approval Number ........................................................................................................ 44.0701.51 24
CIP Area ......................................................................................................................... Public Affairs
maximum SCH per student .............................................................................................. 3
maximum SCH per course .............................................................................................. 3
maximum contact hours per course .................................................................................. 48

SOCW 2362 Social Welfare as a Social Institution

Introduction to the study of modern social work, the underlying philosophy and ethics of
social work, and the major divisions and types of social work together with their methods and
objectives.

Approval Number ........................................................................................................ 44.0701.52 24
CIP Area ......................................................................................................................... Public Affairs
maximum SCH per student .............................................................................................. 3
maximum SCH per course .............................................................................................. 3
maximum contact hours per course .................................................................................. 48

SPAN (SPANISH LANGUAGE)

SPAN 1100 Beginning Spanish Conversation I (1 SCH version)
SPAN 1110 Beginning Spanish Conversation II (1 SCH version)
SPAN 1200 Beginning Spanish Conversation I (2 SCH version)
SPAN 1210 Beginning Spanish Conversation II (2 SCH version)
SPAN 1300 Beginning Spanish Conversation I (3 SCH version)
SPAN 1310 Beginning Spanish Conversation II (3 SCH version)
SPAN 2106 Intermediate Spanish Conversation (1 SCH version)
SPAN 2206 Intermediate Spanish Conversation (2 SCH version)
SPAN 2306 Intermediate Spanish Conversation (3 SCH version)

Basic practice in comprehension and production of the spoken language.

Approval Number ........................................................................................................ 16.0905.54 13
CIP Area ......................................................................................................................... Foreign Languages
maximum SCH per student .............................................................................................. 6
maximum SCH per course .............................................................................................. 3
maximum contact hours per course .................................................................................. 48
SPAN 1305  Intensive Beginning Spanish

Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture. Covers material comparable to separate 1st- and 2nd-semester Spanish courses.

Approval Number ................................................................. 16.0905.51 13
CIP Area .................................................................................. Foreign Languages
maximum SCH per student .......................................................... 10
maximum SCH per course ........................................................... 5
maximum contact hours per course .............................................. 112

SPAN 1311  Beginning Spanish I (1st semester Spanish, 3 SCH version)
SPAN 1411  Beginning Spanish I (1st semester Spanish, 4 SCH version)
SPAN 1511  Beginning Spanish I (1st semester Spanish, 5 SCH version)

SPAN 1312  Beginning Spanish II (2nd semester Spanish, 3 SCH version)
SPAN 1412  Beginning Spanish II (2nd semester Spanish, 4 SCH version)
SPAN 1512  Beginning Spanish II (2nd semester Spanish, 5 SCH version)

Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

Approval Number ................................................................. 16.0905.51 13
CIP Area .................................................................................. Foreign Languages
maximum SCH per student .......................................................... 10
maximum SCH per course ........................................................... 5
maximum contact hours per course .............................................. 112

SPAN 2106  Intermediate Spanish Conversation (1 SCH version)
SPAN 2306  Intermediate Spanish Conversation (3 SCH version)

Basic practice in comprehension and production of the spoken language.

Approval Number ................................................................. 16.0905.54 13
CIP Area .................................................................................. Foreign Languages
maximum SCH per student .......................................................... 6
maximum SCH per course ........................................................... 3
maximum contact hours per course .............................................. 48

SPAN 2311  Intermediate Spanish I (3rd semester Spanish)
SPAN 2312  Intermediate Spanish II (4th semester Spanish)

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture.

Approval Number ................................................................. 16.0905.52 13
CIP Area .................................................................................. Foreign Languages
maximum SCH per student .......................................................... 6
maximum SCH per course ........................................................... 3
maximum contact hours per course .............................................. 80
### SPAN 2313  
Spanish for Native Speakers I  
Basic practice in comprehension and production of the spoken language.  
Approval Number: 16.0905.54 13  
CIP Area: Foreign Languages  
Maximum SCH per student: 6  
Maximum SCH per course: 3  
Maximum contact hours per course: 48

### SPAN 2315  
Spanish for Native Speakers II  

### SPAN 2316  
Career Spanish I  

### SPAN 2317  
Career Spanish II  

### SPAN 2321  
Introduction to Spanish Literature I (Iberian)  
Representative readings of the culture.  
Approval Number: 16.0905.53 13  
CIP Area: Foreign Languages  
Maximum SCH per student: 6  
Maximum SCH per course: 3  
Maximum contact hours per course: 48

### SPAN 2322  
Introduction to Spanish Literature II (Iberian)  

### SPAN 2323  
Introduction to Latin American Literature  

### SPAN 2324  
Spanish Culture  

### SPAN 2189  
Academic Cooperative (1 SCH version)  
An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of Spanish language and literature.  
Approval Number: 24.0103.52 12  
CIP Area: Interdisciplinary  
Maximum SCH per student: 3  
Maximum SCH per course: 3  
Maximum contact hours per course: 112

### SPCH (SPEECH)  

#### SPCH 1144  
Forensic Activities I  
Laboratory experience for students who participate in forensic activities.  
Approval Number: 23.1001.60 12  
CIP Area: Letters  
Maximum SCH per student: 4  
Maximum SCH per course: 1  
Maximum contact hours per course: 64
SPCH 1311  Introduction to Speech Communication

Theories and practice of communication in interpersonal, small group, and public speech.

Approval Number .................................................................................................................. 23.1001.51 12
CIP Area ............................................................................................................................... Letters
maximum SCH per student ..................................................................................................... 3
maximum SCH per course ...................................................................................................... 3
maximum contact hours per course ....................................................................................... 48

SPCH 1315  Public Speaking

Research, composition, organization, delivery, and analysis of speeches for various purposes and occasions.

Approval Number .................................................................................................................. 23.1001.53 12
CIP Area ............................................................................................................................... Letters
maximum SCH per student ..................................................................................................... 3
maximum SCH per course ...................................................................................................... 3
maximum contact hours per course ....................................................................................... 48

SPCH 1318  Interpersonal Communication

Theories and exercises in verbal and nonverbal communication with focus on interpersonal relationships.

Approval Number .................................................................................................................. 23.1001.54 12
CIP Area ............................................................................................................................... Letters
maximum SCH per student ..................................................................................................... 3
maximum SCH per course ...................................................................................................... 3
maximum contact hours per course ....................................................................................... 48

SPCH 1321  Business & Professional Speaking

Theories and practice of speech communication as applied to business and professional situations.

Approval Number .................................................................................................................. 23.1001.52 12
CIP Area ............................................................................................................................... Letters
maximum SCH per student ..................................................................................................... 3
maximum SCH per course ...................................................................................................... 3
maximum contact hours per course ....................................................................................... 48

SPCH 1342  Voice & Diction

Physiology and mechanics of effective voice production with practice in articulation, pronunciation, and enunciation.

Approval Number .................................................................................................................. 23.1001.58 12
CIP Area ............................................................................................................................... Letters
maximum SCH per student ..................................................................................................... 6
maximum SCH per course ...................................................................................................... 3
maximum contact hours per course ....................................................................................... 96
SPCH 2333  Discussion & Small Group Communication

Discussion and small group theories and techniques as they relate to group process and interaction.

Approval Number .............................................................. 23.1001.56 12
CIP Area .................................................................................Letters
maximum SCH per student ......................................................... 3
maximum SCH per course ............................................................ 3
maximum contact hours per course .............................................. 48

SPCH 2335  Argumentation & Debate

Theories and practice in argumentation and debate including analysis, reasoning, organization, evidence, and refutation.

Approval Number .............................................................. 23.1001.59 12
CIP Area .................................................................................Letters
maximum SCH per student ......................................................... 3
maximum SCH per course ............................................................ 3
maximum contact hours per course .............................................. 48

SPCH 2341  Oral Interpretation

Theories and techniques in analyzing and interpreting literature. Preparation and presentation of various literary forms.

Approval Number .............................................................. 23.1001.57 12
CIP Area .................................................................................Letters
maximum SCH per student ......................................................... 3
maximum SCH per course ............................................................ 3
maximum contact hours per course .............................................. 48

SPCH 2189  Academic Cooperative (1 SCH version)
SPCH 2289  Academic Cooperative (2 SCH version)
SPCH 2389  Academic Cooperative (3 SCH version)

An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of speech.

Approval Number .............................................................. 24.0103.52 12
CIP Area .................................................................................Interdisciplinary
maximum SCH per student ......................................................... 3
maximum SCH per course ............................................................ 3
maximum contact hours per course .............................................. 112
TECA (EARLY CHILDHOOD EDUCATION)

TECA 1303  Families & the Community
A study of the relationship between the child, family, community, and educators, including a study of parent education and involvement, family and community lifestyles, child abuse, and current family life issues.

Approval Number ................................................................. 20.0107.51 09
CIP Area ................................................................................. Vocational Home Economics
maximum SCH per student ...................................................... 3
maximum SCH per course ...................................................... 3
maximum contact hours per course ....................................... 96

TECA 1311  Introduction to Early Childhood Education
An introduction to the profession of early childhood education, focusing on developmentally appropriate practices, types of programs, historical perspectives, ethics, and current issues.

Approval Number ................................................................. 20.0201.51 09
CIP Area ................................................................................. Vocational Home Economics
maximum SCH per student ...................................................... 3
maximum SCH per course ...................................................... 3
maximum contact hours per course ....................................... 80

TECA 1318  Nutrition, Health, & Safety
A study of nutrition, health, and safety including community health, universal health precautions, and legal implications. Practical application of these principles in a variety of settings.

Approval Number ................................................................. 20.0201.52 09
CIP Area ................................................................................. Vocational Home Economics
maximum SCH per student ...................................................... 3
maximum SCH per course ...................................................... 3
maximum contact hours per course ....................................... 80

TECA 1354  Child Growth & Development
A study of the principles of child growth and development from conception through adolescence. Focus on physical, cognitive, social, and emotional domains of development.

Approval Number ................................................................. 19.0706.52 09
CIP Area ................................................................................. Home Economics
maximum SCH per student ...................................................... 3
maximum SCH per course ...................................................... 3
maximum contact hours per course ....................................... 96
## New Courses

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<td>Community Resources in Corrections</td>
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<td>CRIJ 2313</td>
<td>Correctional Systems and Practices</td>
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<td>Criminal Investigation</td>
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<td>Legal Aspects of Law Enforcement</td>
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<td>CRIJ 2328</td>
<td>Police Systems and Practices</td>
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### DANC
- **DANC 1149**   Ballet Folklorico I  *(1st Semester, 1 SCH version)*
- **DANC 1249**   Ballet Folklorico I  *(1st Semester, 2 SCH version)*
- **DANC 1349**   Ballet Folklorico I  *(1st Semester, 3 SCH version)*
- **DANC 1150**   Ballet Folklorico II  *(2nd Semester, 1 SCH version)*
- **DANC 1250**   Ballet Folklorico II  *(2nd Semester, 2 SCH version)*
- **DANC 1350**   Ballet Folklorico II  *(2nd Semester, 3 SCH version)*
- **DANC 2149**   Ballet Folklorico III  *(3rd Semester, 1 SCH version)*
- **DANC 2249**   Ballet Folklorico III  *(3rd Semester, 2 SCH version)*
- **DANC 2349**   Ballet Folklorico III  *(3rd Semester, 3 SCH version)*
- **DANC 2150**   Ballet Folklorico IV  *(4th Semester, 1 SCH version)*
- **DANC 2250**   Ballet Folklorico IV  *(4th Semester, 2 SCH version)*
- **DANC 2350**   Ballet Folklorico IV  *(4th Semester, 3 SCH version)*

### DRAM
- **DRAM 1142**   Introduction to Costume  *(1 SCH version)*
- **DRAM 1242**   Introduction to Costume  *(2 SCH version)*
- **DRAM 1342**   Introduction to Costume  *(3 SCH version)*
- **DRAM 2352**   Acting IV

### EDUC
- **EDUC 1300/PSYC 1300**   Learning Framework
- **EDUC 1301**   Introduction to Education
- **EDUC 1325**   Principles and Practices of Multicultural Education
- **EDUC 2301**   Introduction to Special Education

### ENGL
- **ENGL 2341**   Forms of Literature  *(single semester course)*
- **ENGL 2342**   Forms of Literature  *(1st course in 2 semester sequence)*
- **ENGL 2343**   Forms of Literature  *(2nd course in 2 semester sequence)*

### ENGR
- **ENGR 2432**   Mechanics of Materials  *(4 SCH version)*
- **ENGR 2401**   Mechanics I  *(4 SCH version)*
- **ENGR 2402**   Mechanics II  *(4 SCH version)*
- **ENGR 2404**   Fundamentals of Electrical Engineering  *(lecture + lab)*
- **ENGR 2305**   Fundamentals of Electrical Engineering  *(lecture)*
- **ENGR 2406**   Fundamentals of Electrical Engineering II  *(lecture + lab)*
- **ENGR 2105**   Fundamentals of Electrical Engineering  *(lab)*
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MUSI
MUSI 1290   Electronic Music I  (2 SCH version)
MUSI 1390   Electronic Music I  (3 SCH version)
MUSI 1291   Electronic Music II (2 SCH version)
MUSI 1391   Electronic Music II (3 SCH version)
MUSI 1307   Music Literature (single semester version)
MUSI 2117   Advanced Sight Singing and Ear Training II (1 SCH version)

PHIL
PHIL 2318   Contemporary Philosophy

PSYC
PSYC 1300/EDUC 1300 Learning Framework

SGNL
SGNL 1201   Beginning American Sign Language I  (2 SCH version)
SGNL 1301   Beginning American Sign Language I  (3 SCH version)
SGNL 1401   Beginning American Sign Language I  (4 SCH version)
SGNL 1501   Beginning American Sign Language I  (5 SCH version)
SGNL 1202   Beginning American Sign Language II (2 SCH version)
SGNL 1302   Beginning American Sign Language II (3 SCH version)
SGNL 1402   Beginning American Sign Language II (4 SCH version)
SGNL 1502   Beginning American Sign Language II (5 SCH version)
SGNL 2301   Intermediate American Sign Language I
SGNL 2302   Intermediate American Sign Language II

SPAN
SPAN 1100   Beginning Spanish Conversation I  (1 SCH version)
SPAN 1110   Beginning Spanish Conversation II (1 SCH version)
SPAN 1200   Beginning Spanish Conversation I  (2 SCH version)
SPAN 1210   Beginning Spanish Conversation II (2 SCH version)
SPAN 1300   Beginning Spanish Conversation I  (3 SCH version)
SPAN 1310   Beginning Spanish Conversation II (3 SCH version)
SPAN 2106   Intermediate Spanish Conversation (1 SCH version)
SPAN 2206   Intermediate Spanish Conversation (2 SCH version)
SPAN 2306   Intermediate Spanish Conversation (3 SCH version)

TECA
TECA 1303   Family and the Community
TECA 1311   Introduction to Early Childhood Education
TECA 1318   Nutrition, Health, and Safety
TECA 1354   Child Growth and Development
Developmental Courses

The following courses are developmental and do not result in degree or transferable credit. These courses may be offered for funding reimbursement.

STUDY SKILLS

Techniques of study such as time management, listening and note taking, text marking, library and research skills, preparing for examinations, and utilizing learning resources. Includes courses in college orientation and developments of students’ academic skills that apply to all disciplines.

Approval Number .....................................................................................32.0101.52 12
CIP Area ................................................................................................... Basic Skills, General
maximum SCH per student ........................................................................ 9
maximum SCH per course ......................................................................... 3
maximum contact hours per course .......................................................... 96

DEVELOPMENTAL MATHEMATICS

Topics in mathematics such as arithmetic operations, basic algebraic concepts and notation, geometry, and real and complex number systems.

This course may be taught in a 3 SCH or 4 SCH format.

Approval Number .....................................................................................32.0104.51 19
CIP Area ................................................................................................... Computation Skills
maximum SCH per student ......................................................................... 12
maximum SCH per course ......................................................................... 4
maximum contact hours per course .......................................................... 96

INTERMEDIATE ALGEBRA

A study of relations and functions, inequalities, factoring, polynomials, rational expressions, and quadratics with an introduction to complex numbers, exponential and logarithmic functions, determinants and matrices, and sequences and series.

Approval Number .....................................................................................32.0104.52 19
CIP Area ................................................................................................... Computation Skills
maximum SCH per student ......................................................................... 3
maximum SCH per course ......................................................................... 3
maximum contact hours per course .......................................................... 64
DEVELOPMENTAL READING

Fundamental reading skills to develop comprehension, vocabulary, and rate.

Approval Number .................................................................................................................. 32.0108.52 12
CIP Area ......................................................................................................................... Reading, Literacy, and Communication
maximum SCH per student................................................................................................. 9
maximum SCH per course .................................................................................................... 3
maximum contact hours per course ..................................................................................... 96

DEVELOPMENTAL WRITING

Development of fundamental writing skills such as idea generation, organization, style, utilization of standard English, and revision.

Approval Number .................................................................................................................. 32.0108.53 12
CIP Area ......................................................................................................................... Reading, Literacy, and Communication
maximum SCH per student................................................................................................. 9
maximum SCH per course .................................................................................................... 3
maximum contact hours per course ..................................................................................... 96

DEVELOPMENTAL COMPOSITION FOR NON-NATIVE SPEAKERS

Principles and techniques of composition and reading. Open only to non-native speakers.

Approval Number .................................................................................................................. 32.0108.54 12
CIP Area ......................................................................................................................... Reading, Literacy, and Communication
maximum SCH per student................................................................................................. 9
maximum SCH per course .................................................................................................... 3
maximum contact hours per course ..................................................................................... 96

DEVELOPMENTAL ESOL ORAL COMMUNICATION

Develops listening and speaking skills in speakers of languages other than English and prepares them to function in an English-speaking society.

Approval Number .................................................................................................................. 32.0108.55 12
CIP Area ......................................................................................................................... Reading, Literacy, and Communication
maximum SCH per student................................................................................................. 9
maximum SCH per course .................................................................................................... 3
maximum contact hours per course ..................................................................................... 96
DEVELOPMENTAL ESOL READING AND VOCABULARY

Develops reading fluency and vocabulary in speakers of languages other than English and prepares them to function in an English-speaking society.

Approval Number ............................................................................................... 32.0108.56 12
CIP Area .............................................................. Reading, Literacy, and Communication
maximum SCH per student.......................................................................................... 9
maximum SCH per course........................................................................................... 3
maximum contact hours per course ............................................................................ 96

DEVELOPMENTAL ESOL WRITING AND GRAMMAR

Develops writing skills, including standard English usage, organization of ideas, and application of grammar, in speakers of languages other than English and prepares them to function in an English-speaking society.

Approval Number ............................................................................................... 32.0108.57 12
CIP Area .............................................................. Reading, Literacy, and Communication
maximum SCH per student.......................................................................................... 9
maximum SCH per course........................................................................................... 3
maximum contact hours per course ............................................................................ 96
Courses Under Review

| ARTS 2313 | Design Communications I |
| ARTS 2314 | Design Communications II |
| ARTS 2331 | Graphic Design I |
| ARTS 2332 | Graphic Design II |
| ARTS 2351 | Advertising Art I |
| ARTS 2352 | Advertising Art II |
| ENGL 1306 | Composition for Non-Native Speakers I |
| ENGL 1307 | Composition for Non-Native Speakers II |
Deleted Courses
(These courses may be used through summer of 2002.)

**BUSI**
- BUSI 1309 Office Machines
- BUSI 1409 Office Machines

**COSC**
- COSC 2334 Advanced Programming Assembly
- COSC 2335 Advanced Programming Pascal
- COSC 2434 Advanced Programming Assembly
- COSC 2435 Advanced Programming Pascal

**DRAM**
- DRAM 2337 Voice for Actors (1st course in 2 semester sequence)
- DRAM 2338 Voice for Actors (2nd course in 2 semester sequence)

**ENGL**
- ENGL 1313 Analytical Reading and Critical Thinking

**HECO**
- HECO 1311 Social Fundamentals

**HIST**
- HIST 2302 Texas History (1st course in 2 semester sequence)
- HIST 2303 Texas History (2nd course in 2 semester sequence)

**HUMAN DEVELOPMENT**
- 32.0199 51 12 Human Development (May be offered on a unique need basis only)

**MATH**
- MATH 1335 Math for Elementary School Teachers (1st semester)
- MATH 1336 Math for Elementary School Teachers (2nd semester)

**MUSI**
- MUSI 1208 Music Literature I (2 SCH version)
- MUSI 1209 Music Literature II (2 SCH version)
OFAD

OFAD 1101  Typewriting
OFAD 1102  Typewriting
OFAD 1103  Typewriting
OFAD 1301  Beginning Shorthand
OFAD 1302  Intermediate Shorthand
OFAD 1303  Steno-speed Shorthand
OFAD 1311  Beginning Typewriting
OFAD 1312  Intermediate Typewriting
OFAD 1314  Records Management (*Principles of Filing Methods*)
OFAD 2301  Advanced Typewriting
OFAD 2304  Word Processing I
OFAD 2305  Word Processing II
OFAD 2311  Advanced Shorthand
OFAD 2312  Office Procedures

PSYC

PSYC 2340  Current Issues in Psychology

DEVELOPMENTAL

Basic Thinking and Reasoning
Developmental Communication
Developmental Science
Courses Lacking TCCN Designations

ART
ARTS 0000  Studies in Contemporary Art
In-depth study of current concerns and practices in the visual arts.
Approval Number ................................................................. 50.0703.53 30
CIP Area ................................................................. Visual and Performing Arts
maximum SCH per student ............................................................... 4
maximum SCH per course ................................................................. 3
maximum contact hours per course .................................................. 80

BIOLOGY
BIOL 0000  Biological Entomology (lecture + lab)
BIOL 0000  Biological Entomology (lecture)
BIOL 0000  Biological Entomology (lab)
Study of insects, including life cycle, morphology, physiology, ecology, taxonomy,
population dynamics, genetics, and ecosystem relations. Includes instruction in the
biological and chemical control of insects.
Approval Number ................................................................. 26.0702.51 24
CIP Area ................................................................. Life Sciences
Maximum SCH per student ............................................................... 4
maximum SCH per course ................................................................. 4
maximum contact hours per course .................................................. 96

ENGLISH
ENGL 0000  Advanced Literature Analysis (single-semester course)
ENGL 0000  Advanced Literature Analysis I
ENGL 0000  Advanced Literature Analysis II
Intensive analysis of literary works. May be unified by theme, period, or subject matter.
Approval Number ................................................................. 23.0301.53 35
CIP Area ................................................................. Letters
maximum SCH per student ............................................................... 6
maximum SCH per course ................................................................. 3
maximum contact hours per course .................................................. 48
HOME ECONOMICS

HECO 0000  Applied Design
Basic design principles and application of aesthetic elements in all areas of home economics.

Approval Number ................................................................. 19.0101.53 33
CIP Area ................................................................. Home Economics
maximum SCH per student .......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course .................................................. 96

HECO 0000  Consumer Science
Study of concepts pertaining to consumer behavior in relation to the social, political, and economic components of market environments.

Approval Number ................................................................. 19.0402.51 33
CIP Area ................................................................. Home Economics
maximum SCH per student .......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course .................................................. 48

HISTORY

HIST 0000  Advanced Historical Analysis
In-depth study of selected minority, local, regional, national, or international topics.
Prerequisite: 6 hours of history.

Approval Number ................................................................. 45.0801.56 25
CIP Area ................................................................. Social Sciences
maximum SCH per student .......................................................... 3
maximum SCH per course .......................................................... 3
maximum contact hours per course .................................................. 48

MUSIC

MUSI 0000  Individual Instruction
Individual instruction in voice or brass, percussion, woodwind, stringed, or keyboard instruments.

Approval Number ................................................................. 50.0903.54.30
CIP Area ................................................................. Visual & Performing Arts
maximum SCH per student .......................................................... 20
maximum SCH per course .......................................................... 1
maximum contact hours per course .................................................. 32
PHYSICAL EDUCATION

PHED 0000   Recreational Dance

Instruction and participation in folk, social, tap, or other dance forms.

NOTE: The KINE/PHED prefix, not the DANC prefix, should be used for courses reported under this number.

Approval Number .................................................................36.0114.51 23
CIP Area ..............................................................................Leisure & Recreational Activities
maximum SCH per student........................................................8
maximum SCH per course ..........................................................2
maximum contact hours per course .................................................64
Courses Not Eligible For Funding

New Testament Greek
Biblical Hebrew
Old Testament Survey
New Testament Survey
Appendix A: Approved Field Of Study Curricula

The current list of approved field of study curricula may be viewed on the Internet at: http://www.thecb.state.tx.us/ctc/ip/core11_00/index.htm Field of study curricula are being developed continuously. Please check this web site regularly.
FIELD OF STUDY TRANSFER CURRICULUM FOR CHILD DEVELOPMENT/ EARLY CHILDHOOD EDUCATION

Leading to the:
Bachelor of Science in Human Sciences
or
Bachelor of Science in Interdisciplinary Studies

Concentration: Child and Family Studies/Child Development including a Proposed Certification in Early Childhood Education

<table>
<thead>
<tr>
<th>36-48 Hour Academic Major-21 hours must be upper-division</th>
</tr>
</thead>
<tbody>
<tr>
<td>The lower-division degree requirements must include:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12 hours of Early Childhood “delivery system: which will include the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Families and the Community – TECA 1303</td>
</tr>
<tr>
<td>Intro. To Early Childhood – TECA 1311</td>
</tr>
<tr>
<td>Nutrition, Health &amp; Safety – TECA 1318</td>
</tr>
<tr>
<td>Child Growth &amp; Development – TECA 1354</td>
</tr>
<tr>
<td>(These courses may be taught in any appropriate department.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>An additional three hours of lower-division course work may be transferred by local agreement from the following topics:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infant and Toddler</td>
</tr>
<tr>
<td>Child Guidance</td>
</tr>
<tr>
<td>Early Childhood Creative Arts</td>
</tr>
<tr>
<td>Children with Special Needs</td>
</tr>
<tr>
<td>The School Age Child</td>
</tr>
<tr>
<td>Motor Development</td>
</tr>
</tbody>
</table>
1 FIELD OF STUDY CURRICULUM FOR GRADE 4-8 CERTIFICATION

Leading to the:
1 Bachelor of Science Degree with Major in Mathematics or
1 Bachelor of Science Degree with Major in Science or
1 Bachelor of Science Degree with Major in Mathematics/Science Composite or
1 Bachelor of Science Degree with Major in Social Sciences/Language Arts Composite or
1 Bachelor of Science in Interdisciplinary Studies (Generalist and Bilingual Generalist)

Field of Study: The following 12 semester credit hours (SCH) Field of Study courses must be accepted for transfer with the optional 3 SCH according to local agreement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Schools and Society (3 SCH)</td>
<td>- May be one 3 SCH course or three 1 SCH courses designed as recruitment or outreach course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- May be cross-listed in several disciplines</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Will allow special emphasis for regional needs</td>
<td></td>
</tr>
<tr>
<td>2 MATH 1350, Fundamentals of Math I (3 SCH)</td>
<td>- With College Algebra prerequisite or equivalent competencies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- First of two math courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Incorporates SBEC proposed math standards</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Will satisfy 6-9 SCH math requirement as per Board policy</td>
<td></td>
</tr>
<tr>
<td>2 MATH 1351, Fundamentals of Math II (3 SCH)</td>
<td>- With College Algebra prerequisite or equivalent competencies</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Second of two math courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Incorporates SBEC proposed math standards</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Will satisfy 6-9 SCH math requirement as per Board policy</td>
<td></td>
</tr>
<tr>
<td>Child and Lifespan Development or TECA 1354, Child Growth and Development (3 SCH)</td>
<td>- If Child and Lifespan Development, limited to child and adolescent emphasis</td>
<td></td>
</tr>
</tbody>
</table>

An additional 3 SCH of lower-division course work from the following may be transferred by local agreement:

- Beginning or Intermediate Spanish
  - Current 2 ACGM courses
- Physical Science
  - Current 2 ACGM course
- Principles of Geography
  - Current 2 ACGM course
- Children with Special Needs
  - 2 WECM course to be adapted and included in ACGM
- Principles and Practices of Multicultural Education
  - 2 WECM course to be adapted and included in ACGM

1 Each baccalaureate degree offered in conjunction with the 4th through 8th grade certification has three required components: General Education (42-48 SCH), an Academic Composite Major (48) SCH, and Pedagogy (18-24 SCH). Elements of the Field of Study curriculum must transfer into one of these three components as determined by the receiving institution.

2 The actual course title and course number will be determined by the Lower-Division Academic Course Guide Manual (ACGM) Advisory Committee-math courses completed May 2000.

3 Workforce Education Course Manual (WECM) courses are technical in nature: ACGM courses are transferable lower-level, academic courses.

4 In January 1997, the Coordinating Board adopted a policy requiring all teacher certification programs to include 6-9)
FIELD OF STUDY CURRICULUM FOR BUSINESS

The Business Field of Study Curriculum Advisory Committee reviewed the lower-division (freshman and sophomore) requirements of all public four-year colleges and universities in the state of Texas for students seeking a Bachelor of Business Administration (BBA) degree, including all specializations, concentrations, etc. The Committee compiled and compared the findings in an attempt to develop a set of courses that could constitute a Field of Study Curriculum for students seeking the BBA degree; the curriculum would also apply to institutions that award the Bachelor of Arts (BA) or Bachelor of Science (BS) degree with a major in business, including all business specializations. Although some institutions might require a particular course indicative of its mission or region, the committee found that there was substantial commonality among the requirements at different colleges and universities.

Based on that information, the Committee proposes the following annotated set of courses (totaling between 21 and 24 semester credit hours of fully transferable and applicable lower-division courses) to be considered as a Field of Study Curriculum for Business:

### Courses

<table>
<thead>
<tr>
<th>Content Area</th>
<th>Number and type of courses</th>
<th>Texas Common Course Numbering System (TCCNS) Equivalents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics</td>
<td>2 courses: Microeconomics &amp; Macroeconomics</td>
<td>ECON 2301 &amp; 2302 only</td>
</tr>
<tr>
<td>Mathematics</td>
<td>1 course: Minimum content must be at the level of Calculus or above</td>
<td>MATH 1325&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Computer Literacy</td>
<td>1 course: New course, with a TCCNS BCIS prefix to be assigned&lt;sup&gt;2&lt;/sup&gt;</td>
<td>BCIS 13XX or 14XX only</td>
</tr>
<tr>
<td>Speech</td>
<td>1 course: Public speaking with an emphasis (50% or more of course content) on the preparation and presentation of professional speeches, using computer technology when appropriate</td>
<td>SPCH 1311 (with appropriate content only), or SPCH 1315, or SPCH 1321 (preferred) only</td>
</tr>
<tr>
<td>Accounting</td>
<td>2 courses: Financial &amp; Managerial Accounting</td>
<td>ACCT 2301 or 2401 &amp; 2302 or 2402 only</td>
</tr>
</tbody>
</table>

<sup>1</sup>Individual institutions should determine any prerequisite requirements for MATH 1325.

<sup>2</sup>This course is a computer-literacy-based course with business applications, for which a description and desirable student outcomes have been developed by the advisory committee. The description of the course was approved for inclusion in the newly revised Lower-Division Academic Course Guide Manual on March 3, 2000.
The following Notes are also part of the field of study curriculum. They address special circumstances.

NOTES:

First, wherever possible, courses applied to fulfill the field of study curriculum requirement should also be used to satisfy requirements in the general academic core curriculum. Generally, the math course, the speech course and the first economics course may be able to fulfill requirements in both curricula.

Second, up to a total of six additional semester credit hours of business-related lower-division course work may be transferred by local agreement between institutions, OR required by the receiving institution as long as the additional credit does not duplicate any other requirement within the field of study curriculum.

Third, special circumstances dictate the following supplements to the field of study curriculum:

- Degree programs in Information Systems, Computer Information Systems, and Management Information Systems may require additional courses and/or demonstrated proficiency in computer programming;

- International Business and other business programs with a specific international focus may require additional courses and/or demonstrated proficiency in foreign language; and

- Joint degree programs in which the degree awarded is a business degree, but the program is jointly offered by a business and a non-business discipline (such as a BBA in Actuarial Science offered jointly by a College of Business and a Department of Mathematics and Statistics) may include some or all of any field of study curricular components of the non-business discipline. If no field of study exists for the non-business discipline, the lower-division courses that are normally required of majors in the non-business discipline should be completed as part of lower-division preparation for upper-division work.
FIELD OF STUDY CURRICULUM FOR MUSIC

The field of study curriculum for music is designed to apply to the Bachelor of Music degree but may also be applied to the Bachelor of Arts or other baccalaureate-level music degrees as deemed appropriate by the awarding institution. The field of study curriculum is furthermore intended to serve as a guide for community and technical colleges in structuring a transfer curriculum in music.

Field of Study Courses
The field of study curriculum shall consist of 27 to 35 lower division semester credit hours that are fully transferable. Transfer of credit in ensemble, applied study, and theory/aural skills shall be on a course-for-course basis.

<table>
<thead>
<tr>
<th>Course</th>
<th>Number Of Semesters</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ensemble</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Applied Study</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Theory/Aural Skills</td>
<td>4</td>
<td>12-16</td>
</tr>
<tr>
<td>Music Literature</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

Keyboard (piano) Competency
Because keyboard (piano) competency is a requirement for most baccalaureate degrees in music, up to four additional semester credit hours of course work pertaining to keyboard (piano) may transfer by agreement between institutions. Keyboard competency courses approved for transfer are courses in group piano or applied lessons that concentrate specifically on skills development for passing keyboard proficiency examinations. Keyboard courses that concentrate primarily on performance literature are not considered to be keyboard competency courses for the purposes of this field of study. Completion of courses leading to keyboard proficiency does not necessarily satisfy the established proficiency requirement at a receiving institution.

Competency, Proficiency, and Diagnostic Assessment
Transferring students who have completed the field of study curriculum must satisfy the competency and proficiency requirements of the receiving institution. Transferring students shall not be required to repeat courses transferred as part of the field of study curriculum. However, diagnostic assessment of transfer students is permissible if the receiving institution routinely conducts diagnostic assessment of native students at the same point in the program of study.

Vocal Diction and Instrumental Methods
Course work in vocal diction and instrumental methods is not included in the field of study curriculum but may nonetheless transfer by agreement between institutions.
Courses for Specific Degree Programs
Completion of the field of study curriculum shall not prevent a receiving institution from requiring additional lower division courses that may be necessary for specific degree programs. Courses selected for inclusion in the field of study curriculum are those considered to be common to lower division study for most music degrees. Receiving institutions may require transfer students in specialized programs (e.g., jazz studies, performance, composition, music therapy, etc.) to take additional degree-specific lower-division courses that are not included in the field of study curriculum.

Music Literature Course(s)
The music field of study curriculum contains one semester of music literature that will automatically transfer into the student’s degree program at a receiving institution. Since some senior colleges and universities require students to successfully complete two semesters of music literature, sending institutions should, to the extent possible, work with receiving institutions to develop transfer options that best serve student needs while maintaining program integrity at the sending and receiving institutions. A second semester of music literature is automatically transferable when it is part of a sending institution’s approved general education component. Two-year colleges that offer a single course in music literature may elect to strengthen that course by increasing the weekly contact hours to five as permitted in the Coordinating Board’s Community College General Academic Course Guide Manual.

Full Academic Credit
Academic credit shall be granted on a course-for-course basis in the transfer of theory/aural skills, applied music, and ensemble courses and will be accepted at the credit-hour level of the receiving institution. Full academic credit shall be granted on the basis of comparable courses completed, not on specific numbers of credit hours accrued.

General Education Courses
In addition to the course work listed above, the maximum recommended transfer credit from the general education core curriculum is 31-39 semester credit hours. Students shall complete the general education core curriculum in effect at the institution that will grant the baccalaureate degree.

The Associate’s Degree in Music
The field of study curriculum should serve as the basis for structuring the associate’s degree in music. Each two-year college should determine which courses from its approved general education core curriculum to include with the music field of study curriculum in order to constitute a 66 semester credit hour transfer block. In order to receive the baccalaureate degree, a transferring student shall complete the general education core at the receiving institution.
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Appendix B: Forms
ACADEMIC COURSE INVENTORY UPDATE
UNIQUE NEED COURSE: REQUEST FOR APPROVAL FORM

1. Institution                      2. College Official                      3. Effective Date

4. Complete Course Title:

5. Course Description:

6. Unique Course Criteria: Unique courses must meet the criteria as identified by CB Rule 5.172

   (Check appropriate criteria.)

   □ a. This is a general academic course that will transfer and count toward the general education or major
        requirements for a degree at an area university. *At least two letters documenting transferability are attached.*
   □ b. This course has college level rigor.
   □ c. A course syllabus including course description, detailed course outline, and course objectives is attached.
   □ d. This is not a junior or senior level course.
   □ e. This is not a community service, leisure, or a vocational course.
   □ f. This a vocational transfer course and:
        ____ (1) The course will transfer and fulfill specific program requirements at a regional university.
        ____ (2) The course instructor meets SACS requirements for faculty of transfer courses.
        ____ (3) Appropriate equipment is available.
   □g. Justification of need is attached.

Date Submitted                      Chief Academic Officer

Phone number                        Fax number                        E-Mail Address

7. Data:

   a. Update Code                  b. FICE Code                      c. Approval Number
   d. Subject Prefix               e. Course Number                  f. SCH

   g. Course Short Title:         h. Contact Hours
   Lecture                        Lab
   i. Total Contact Hours

Coordinating Board Official         Date

Return this form to: Director, Instructional Programs

THECB Rev. 2/2001
INSTRUCTIONS FOR REQUESTING A UNIQUE NEED COURSE

General Academic Course Inventory Update

The proposed course does not conform closely enough to one of the courses described in the List of Approved Courses for Public Community and Junior Colleges. The college may request Unique Need approval from the Director of Instructional Programs.

Item #1 Name the institution (and campus, if applicable)

Item #2 Name the official completing this form

Item #3 Indicate the academic year and semester the course(s) would first be offered.

Item #4 Indicate the complete Course Title as it would appear in the institution’s catalog.

Item #5 Indicate the complete Course Description as it would appear in the institution’s catalog. Indicate the catalog date and page number where this course will appear.

Item #6 Unique courses must meet the criteria identified in Coordinating Board Rule 5.172. Appropriate items should be checked and documentation attached. Justification of need should include information about special student and/or community needs, degree or field to which course would apply, purpose of course, special qualifications of faculty, etc. If the unique course is approved, it will be assigned an approval number for one academic year only and for the requesting college only.

Item #7 Course Data

a. Update Code: Enter A if the course is a new course to be added. D if the course is to be deleted, or C if this a change in an existing course.

b. FICE Code: Enter the FICE Code for the institution

c. Approval Number: If a number has been previously assigned for the course, enter it. If it is an excessive hour request, enter the number of the equivalent course after substituting an “8” in the 7th digit position. Otherwise, leave blank and the number will be assigned by Coordinating Board staff.

d. Subject Prefix: Enter the subject abbreviation for each course as established and used on official transcripts by the institution.

e. Course Number: Enter the course identification number as used by the institution.

f. Semester Credit Hour Value: Enter the maximum number of semester credit hours which may be awarded for each course (e.g. if ART NNNN may be taken for 1, 2, 3, or 4 SCH, enter 4).

g. Course Short Title: Enter the title of each course as established and used on official transcripts by the institution.

h. Contact Hours:

   LECTURE: Enter the number of hours per semester in a standard 16 week semester instructors are assigned to be “in contact” (i.e., a structured teaching situation) with students in a lecture situation (e.g., classroom, conference, seminar, individual instruction, independent student). Enter only whole numbers in the space provided.

   LAB: Enter the number of hours per semester instructors are required to spend “in contact” (i.e., a structured teaching situation) with students in a laboratory situation associated with the course. Enter only whole numbers in the space provided.

i. Total Contact Hours: Enter the total number of hours in a standard 16 week semester instructors are assigned to be in contact with students in a lecture and laboratory situation. Enter only whole numbers in the space provided.
The signature below certifies that this institution has met all applicable requirements of Coordinating Board rules (Section 5.153) for Distance Learning resident credit courses to be offered during academic year. This certification indicates specifically that:

- No degree or certificate program will be offered via distance learning instruction without prior approval of the Board. In addition, this institution will not offer through distance learning instruction at any site an array of courses that would constitute a degree or certificate program without prior approval by the Board.

- Distance learning instruction offered by any live or telecommunications delivery system will be comparable to on-campus instruction. It will meet the same quality standards offered on-campus to regularly enrolled students.

- A distance learning course which offers either regular college credit or Continuing Education Units will meet the standards of the Commission on Colleges of the Southern Association of Colleges and Schools.

- Students enrolled in distance learning will satisfy the same requirements for admission to the institution, the program of which the course is a part, and to the class/section itself, as are required of on-campus students.

- Faculty providing distance learning instruction will be selected and evaluated by the same standards, review, and approval procedures used by the institution to select and evaluate faculty responsible for on-campus instruction. Institution will provide training and support to enhance the added skills required of faculty to teach classes via instructional telecommunications.

- The instructor of record will participate in the delivery of instruction and evaluation of student progress.

- Providers of graduate-level distance learning instruction will be approved by the graduate faculty of the institution.

- All distance learning instruction will be administered under the authority of the same office or person administering the corresponding on-campus instruction. The supervision, monitoring, and evaluation processes for instructors must be comparable to those for on-campus instruction.

- Students will be provided academic support services, including academic advising, counseling, library and other learning resources, tutoring services, and financial aid, that are comparable to those available for on-campus students.

- Facilities for distance learning instruction (other than homes as instructional telecommunications reception sites) will be adequate for the purpose of delivering instruction which is comparable in quality to on-campus instruction.

- No master’s degree program will be offered via distance learning instruction without express prior notification to the Southern Association of Colleges and Schools. No distance learning doctoral degree program will be authorized except through the approval of joint or cooperative degree programs.

Signature of Chief Academic Officer

Printed Name of Chief Academic Officer

Institution

Date

THECB Rev. 2/200
OUT-OF-STATE CREDIT COURSE REQUEST

1. Institution

2. Type Name and Title of Official Completing This Form

3. Effective Date

4. Complete Course Title:

5. Course Description:

Please submit a separate application for each state or country in which this course will be offered.

6. Location of Course

7. State or Country

8. Describe how this course will utilize academic, cultural, or physical resources not reasonably available in Texas:

9. If this course is taught by adjunct faculty, describe the unique qualifications of personnel to be employed at the out-of-state site:

I certify that this course meets all criteria from §5.157 of the Coordinating Board’s rules for courses offered outside the state of Texas.

Date

Signature of Chief Academic Program Officer

10. Course Data

<table>
<thead>
<tr>
<th>a. Update Code</th>
<th>b. State or Country Code</th>
<th>c. FICE Code</th>
<th>d. Approval Number Assigned</th>
<th>e. Subject Prefix</th>
<th>f. Course Number</th>
<th>g. SCH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>h. Short Course Title</th>
<th>i. Semester Contact Hours</th>
<th>j. Total Semester Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Return this form to: Director of Instructional Programs

THECB Rev. 3/2001
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Appendix C: Distance Education and Off-Campus Instruction
APPROVAL OF DISTANCE EDUCATION AND OFF-CAMPUS INSTRUCTION AT PUBLIC COLLEGES AND UNIVERSITIES

TEXAS ADMINISTRATIVE CODE

TITLE 19  
EDUCATION

PART 1  
TEXAS HIGHER EDUCATION COORDINATING BOARD

CHAPTER 5  
PROGRAM DEVELOPMENT

SUBCHAPTER H  
APPROVAL OF DISTANCE EDUCATION AND OFF-CAMPUS INSTRUCTION FOR PUBLIC COLLEGES AND UNIVERSITIES

RULE §5.151 Purpose

This subchapter provides guidance to all public institutions of higher education in Texas regarding the delivery of distance education and off-campus courses and programs. The Board's goals are to ensure the quality of Texas-based distance education and off-campus courses and programs and to provide residents with access to distance education and off-campus courses and programs that meet their needs. The rules are designed to assure the adequacy of the technical and managerial infrastructures necessary to support those courses and programs.

RULE §5.152 Definitions

The following words and terms, when used in this subchapter, shall have the following meanings, unless the context clearly indicates otherwise:

(1)  Board - The Texas Higher Education Coordinating Board.

(2)  Commissioner - The Commissioner of Higher Education.

(3)  Distance education - Instruction in which the majority of the instruction occurs when the student and instructor are not in the same physical setting. A class is considered a distance education class if students receive more than one-half of the instruction at a distance. Distance education can be delivered synchronously or asynchronously to any single or multiple location(s):

   (A)  Other than the "main campus" of a senior institution (or "on campus"), where the primary office of the chief executive officer of the campus is located;

   (B)  Outside the boundaries of the taxing authority of a public community/junior college district; or
(C) Via instructional telecommunications to any other distant location, including electronic delivery of all types.

(4) Institutional Plan - A long-term plan describing how an institution seeking authority to offer distance education and off-campus instruction will ensure quality and resources in providing such instruction, based on Board-adopted Guidelines for Institutional Plans.

(5) Instructional Telecommunications - Electronic telecommunication technology systems employed to deliver distance education instruction.

(6) Off-Campus - Instruction in which one-half or more of the instruction is delivered with the instructor and student in the same physical location and which meets one of the following criteria: for senior institutions, Lamar state colleges, or public technical colleges, off-campus locations are locations away from the main campus; for public community/junior colleges, off-campus locations are locations outside the taxing district.

(7) Program - Any certificate or degree program offered by a public institution of higher education.

(8) Regional Council - A cooperative arrangement among representatives of all public and independent higher education institutions within a Uniform State Service Region.

(9) Senior institution - Public universities, health science centers and health-related institutions. All provisions of this subchapter relating to universities or to "senior institutions" also apply to health science centers and health-related institutions.

(10) Service area - The territory served by a public community/junior college district as defined in Subchapter J, Texas Education Code (relating to Junior College District Service Area).

(11) Special professional - First professional degree programs, such as law, pharmacy, optometry, dentistry, medicine and veterinary medicine.

RULE §5.153 General Provisions

(a) This subchapter governs the following types of instruction:

(1) Academic credit instruction and formula-funded workforce continuing education provided by a public community/junior college outside of the boundaries of its taxing district;
(2) Academic credit instruction provided by a public technical college, Lamar State college, university, or health-related institution at a site other than the main campus where the primary office of the chief executive officer of the campus is located; or

(3) Academic credit instruction provided at out-of-state or foreign locations by public institutions of higher education.

(b) This subchapter does not apply to the following types of instruction:

(1) Non-credit adult and continuing education courses provided at a distance by universities and health science centers;

(2) Continuing education, except formula-funded workforce continuing education, provided by public community/junior colleges, Lamar state colleges, and public technical colleges; or

(3) Correspondence and extension classes that are not submitted for formula-funding.

(c) The Board retains final authority for the offering of all classes, courses, programs, and degrees, and may take whatever action it deems appropriate to comply with the law or to maintain a high-quality and cost-effective system of distance education and off-campus instruction for the state.

(1) Each course and program offered under the provisions of this subchapter must be within the role and mission of the institution responsible for offering the instruction. Each course must be on the offering institution's inventory of approved courses, and each program must be on the offering institution's inventory of approved programs.

(2) Prior approval may be required before an institution may offer courses and programs under the provisions of this subchapter in certain subject area disciplines or under other conditions specified by the Board.

(3) No doctoral or special professional degree programs may be offered via distance education or off-campus instruction without specific prior approval by the Board.

(d) An institution offering a full degree or certificate program under the provisions of this subchapter shall comply with relevant procedures and rules of the appropriate regulatory or accrediting agency, or professional certification board.

(e) No graduate degree program may be offered via distance education or off-campus instruction without prior notification by the institution to the appropriate regulatory or accrediting agency or professional certification board.
(f) A program is considered to be offered via distance education or off-campus instruction if a student may complete a substantial majority of the program without taking any courses on the main campus of the public university, public technical college, or health-related institution providing the instruction, or without physically attending classes within the boundaries of the taxing district of the public community/junior college district providing the instruction.

(g) Notice of each course offered via off-campus instruction under the provisions of this subchapter shall be submitted to the Board. Notice of each program offered via distance education, including Internet delivery, or off-campus instruction shall be submitted to the Board. Notice shall be provided in accordance with provisions and schedules determined by the Commissioner.

(h) State-funded distance education and off-campus instruction shall be reported in accordance with the Board's uniform reporting system and the reporting provisions of this subchapter.

(i) Institutions may be required to provide special reports on distance education and off-campus courses and programs for inclusion in institutional and statewide reports.

(j) Institutions shall not submit for formula funding semester credit hours generated through distance education by any student who is not a Texas resident or is not physically located in Texas. In limited cases, exceptions can be approved by the Commissioner.

(k) Instruction delivered out-of-state through distance education to non-Texas residents should be treated as extension courses; institutions shall charge appropriate fees to cover the cost of instruction.

RULE §5.154 Standards and Criteria for Distance Education and Off-Campus Instruction

The following standards and criteria shall apply to distance education and off-campus instruction.

(1) Instruction shall meet the quality standards applicable to on-campus instruction.

(2) Courses which offer either semester credit hours or Continuing Education Units shall do so in accordance with the standards of the Commission on Colleges of the Southern Association of Colleges and Schools.

(3) Students shall satisfy the same requirements for admission to the institution, to the program of which the course is a part, and to the class/section itself, as are required of on-campus students. Students
in programs to be offered collaboratively must meet the admission standards of their home institutions.

(4) Faculty shall be selected and evaluated by the same standards, review, and approval procedures used by the institution to select and evaluate faculty responsible for on-campus instruction.

(5) Institutions shall provide training and support to enhance the added skills required of faculty teaching classes via instructional telecommunications.

(6) The instructor of record shall bear responsibility for the delivery of instruction and for evaluation student progress.

(7) Providers of graduate-level instruction shall be approved in the same manner as graduate faculty for on-campus instruction.

(8) All instruction shall be administered by the same entity administering the corresponding on-campus instruction. The supervision, monitoring, and evaluation processes for instructors shall be comparable to those for on-campus instruction.

(9) Students shall be provided academic support services including academic advising, counseling, library and other learning resources, and financial aid appropriate for distance education and off-campus learners.

(10) Facilities (other than homes as distance education reception sites) shall be comparable in quality to those for on-campus instruction.

(11) Institutions shall adhere to additional criteria outlined in the Guidelines for Institutional Plans for Distance Education and Off-Campus Instruction.

RULE §5.155 Institutional Plan for Distance Education and Off-Campus Instruction

(a) Prior to offering any distance education or off-campus courses or programs for the first time, a public community/junior or Lamar state college, technical college, or senior institution shall submit an Institutional Plan for Distance Education and Off-Campus Instruction to the Board for approval. The Commissioner shall provide guidelines for development of such plans.
(b) Institutional academic and administrative policies shall reflect a commitment to maintain the quality of distance education and off-campus programs in accordance with the provisions of this subchapter. An Institutional Plan shall conform to Board guidelines and criteria of the Commission on Colleges of the Southern Association of Colleges and Schools in effect at the time of the Plan's approval. These criteria shall include provisions relating to:

1. Institutional Issues;
2. Educational Programs;
3. Faculty;
4. Student Support Services; and
5. Distance Education Facilities and Support.

(c) Prior to Board consideration of an Institutional Plan, the Commissioner may approve an offering by an institution of a limited number of distance education courses for experimental purposes.

(d) Each institution with an approved Institutional Plan for Distance Education and Off-Campus Instruction shall submit an updated Plan on a schedule to be determined by the Commissioner. Thereafter, Institutional Plans shall be reviewed periodically on a schedule to be determined by the Commissioner.

RULE §5.156 Distance Education and Off-Campus Course and Program General Provisions

(a) The Commissioner shall develop procedures governing the review and approval of distance education and off-campus courses and programs.

(b) Regional Councils in each of the ten Uniform State Service Regions are hereby authorized to make recommendations to the Commissioner and to resolve disputes regarding plans for lower-division courses and programs proposed by public institutions.

1. The presidents, or designated representatives, of each public and independent institution of higher education with its main campus in each Region comprise the Council membership.

2. The Commissioner shall develop procedures to govern Regional Council responsibilities.
RULE §5.157 Out-of-State and Foreign Course and Program General Provisions

(a) State-funded out-of-state and foreign off-campus courses offered by Texas public institutions of higher education, or by an approved consortium composed of Texas public institutions, shall be approved by the Commissioner in order for the semester credit hours or contact hours generated in those courses to be used for formula reimbursement and shall adhere to procedures and standards developed by the Commissioner for out-of-state and foreign offerings.

(b) Non-state-funded credit courses shall not be included in submissions to Regional Councils. Non-credit adult and continuing education courses offered at a distance by universities and health science centers are exempt from this subchapter.

(c) Institutions may not submit for formula funding distance education courses delivered outside the state without specific prior approval by the Commissioner.
CORE CURRICULUM: TRANSFER & FIELD OF STUDY CURRICULA RULES
TEXAS ADMINISTRATIVE CODE

TITLE 19  EDUCATION
PART 1  TEXAS HIGHER EDUCATION COORDINATING BOARD
CHAPTER 5  PROGRAM DEVELOPMENT
SUBCHAPTER S  CORE CURRICULUM TRANSACTION AND FIELD OF STUDY CURRICULA

RULE §5.390 General Provisions
All lower division academic courses shall be fully transferable among public institutions and must count toward the same degree at any public college or university in Texas.

RULE §5.391 Requirements and Limitations
(a) Each institution of higher education shall identify in its undergraduate catalog each lower division course that is substantially equivalent to an academic course listed in the current edition of the Lower Division Academic Course Guide Manual.

(b) Each university must offer at least 45 semester credit hours of academic courses that are substantially equivalent to courses listed in the Lower Division Academic Course Guide Manual including those that fulfill the lower-division portion of the institution's Core Curriculum.

(c) All public colleges and universities must accept transfer of credit for successfully completed courses identified in subsections (a) and (b) of this section as applicable to an associate or baccalaureate degree in the same manner as credit awarded to non-transfer students in that major.

(d) Each institution shall be required to accept in transfer into a baccalaureate degree the number of lower division credit hours in a major which are allowed for their non-transfer students in that major; however,

(1) No institution shall be required to accept in transfer more credit hours in a major than the number set out in the applicable Coordinating Board approved Transfer Curriculum for that major, as prescribed by the current issue of the Coordinating Board's guide to transfer curricula and transfer of credit, Transfer of Credit Policies and Curricula.
(2) In any major for which there is no Coordinating Board approved Transfer Curriculum, no institution shall be required to accept in transfer more lower division course credit in the major applicable to a baccalaureate degree than the institution allows their non-transfer students in that major.

(3) A university may deny the transfer of credit in courses with a grade of "D" as applicable to the student's field of study courses, core curriculum courses, or major.

(e) All senior institutions of higher education in Texas shall provide support services for transfer students equivalent to those provided to non-transfer students regularly enrolled at the institutions, including an orientation program for transfer students equivalent to that provided for entering freshman enrollees.

(f) No university shall be required to accept in transfer or toward a degree, more than 66 semester credit hours of academic credits earned by a student in a community college. Universities, however, may choose to accept additional credit hours.

RULE §5.392 Penalty for Noncompliance with Transfer Rules

If it is determined by the Coordinating Board that an institution inappropriately or unnecessarily required a student to retake a course that is substantially equivalent to a course already taken at another institution, in violation of the provisions of §5.391 of this title (relating to Requirements and Limitations), formula funding for credit hours in the repeated course will be deducted from the institution's appropriations.

RULE §5.393 Resolution of Transfer Disputes for Lower-Division Courses

(a) The following procedures shall be followed by public institutions of higher education in the resolution of credit transfer disputes involving lower-division courses:

(1) If an institution of higher education does not accept course credit earned by a student at another institution of higher education, the receiving institution shall give written notice to the student and to the sending institution that transfer of the course credit is denied. A receiving institution shall also provide written notice of the reasons for denying credit for a particular course or set of courses at the request of the sending institution.

(2) A student who receives notice as specified in paragraph (1) of this subsection may dispute the denial of credit by contacting a designated official at either the sending or the receiving institution.

(3) The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Board rules and guidelines.

(4) If the transfer dispute is not resolved to the satisfaction of the student or the sending institution within 45 days after the date the student received written notice of denial, the institution that denies the course credit for transfer shall notify the Commissioner of its denial and the reasons for the denial.
(b) The Commissioner of Higher Education or the Commissioner's designee shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.

(c) Each institution of higher education shall publish in its course catalogs the procedures specified in subsections (a), (b), (d), and (e) of this section.

(d) The Board shall collect data on the types of transfer disputes that are reported and the disposition of each case that is considered by the Commissioner or the Commissioner's designee.

(e) If a receiving institution has cause to believe that a course being presented by a student for transfer from another school is not of an acceptable level of quality, it should first contact the sending institution and attempt to resolve the problem. In the event that the two institutions are unable to come to a satisfactory resolution, the receiving institution may notify the Commissioner of Higher Education, who may investigate the course. If its quality is found to be unacceptable, the Board may discontinue funding for the course.

RULE §5.400 Definitions

The following words and terms, when used in this subchapter, shall have the following meanings, unless the context clearly indicates otherwise:

1. Core Curriculum - The curriculum in the liberal arts, humanities, sciences, and political, social, and cultural history, that all undergraduates of an institution of higher education are required to complete before receiving a baccalaureate degree.

2. Field of Study Curriculum - A set of courses that will satisfy the lower-division requirements for a baccalaureate degree in a specific academic area at a general academic teaching institution.

3. Consistent with the Texas Common Course Numbering System (TCCNS) a lower-division course that meets one of three conditions:
   (A) it has an assigned a TCCNS number and is listed in the Lower Division Academic Course Guide Manual;
   (B) a TCCNS number and inclusion in the Lower Division Academic Course Guide Manual have been requested for the course; or
   (C) the institution which offers the course has specified at least one TCCNS course listed in the Lower Division Academic Course Guide Manual that will be accepted in transfer in lieu of the course.

4. The Lower Division Academic Course Guide Manual is an official Coordinating Board publication that lists a basic core of general academic courses which are freely transferable among all public institutions of higher education in Texas in accordance with the Texas Education Code, §61.051(g). TCCNS numbers are assigned to all courses in the manual.
RULE §5.401  General Provisions

(a) Nothing in this subchapter restricts the authority of an institution of higher education to adopt its own admission standards in compliance with this section or its own grading policies so long as it treats transfer students and native students in the same manner.

(b) Institutional policies regarding acceptance of credit for correspondence courses, credit-by-examination, and other credit-earning instruments must be consistent with Southern Association of Colleges and Schools' guidelines and must treat transfer students and native students in the same manner.

(c) This subchapter applies specifically to academic courses and degree programs, and does not apply to technical courses or degree programs.

RULE §5.402  Core Curriculum

(a) In accordance with Texas Education Code, Chapter 61, Subchapter S, each general academic institution and community college shall design and implement a core curriculum, including specific courses composing the curriculum, of no less than 42 lower-division semester credit hours.

(b) Each institution's core curriculum must be designed to satisfy the exemplary educational objectives specified for the component areas of the "Core Curriculum: Assumptions and Defining Characteristics" adopted by the Board; all lower-division courses included in the core curriculum must be consistent with the "Texas Common Course Numbering System"; and must be consistent with the framework identified in Charts I and II of this subsection. Chart I specifies the minimum number of semester credit hours required in each of five major component areas that a core curriculum must include (with sub-areas noted in parentheses). Chart II specifies options available to institutions for the remaining 6 semester credit hours.
## Core Curriculum Chart I

<table>
<thead>
<tr>
<th>Component Area</th>
<th>Required Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communication</strong> (English rhetoric/composition)</td>
<td>6</td>
</tr>
<tr>
<td><strong>Mathematics</strong> (Logic, college-level algebra equivalent or above)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Natural Sciences</strong></td>
<td>6</td>
</tr>
<tr>
<td><strong>Humanities &amp; Visual and Performing Arts</strong></td>
<td>6</td>
</tr>
<tr>
<td>Must include Visual/Performing Arts</td>
<td>(3)</td>
</tr>
<tr>
<td>Other (literature, philosophy, modern or classical language/literature and cultural studies)*</td>
<td>(3)</td>
</tr>
<tr>
<td><strong>Social and Behavioral Sciences</strong></td>
<td>15</td>
</tr>
<tr>
<td>Must include:</td>
<td></td>
</tr>
<tr>
<td>U.S. History (legislatively mandated)</td>
<td>(6)</td>
</tr>
<tr>
<td>Political Science (legislatively mandated)</td>
<td>(6)</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td>(3)</td>
</tr>
<tr>
<td><strong>Total Minimum Requirements</strong></td>
<td>36</td>
</tr>
</tbody>
</table>

*Humanities: application of language skills includes a study of literature in the original language, and/or the cultural studies related to a modern or classical language.*
Core Curriculum Chart II

To complete the required 42 semester credit hour core curriculum, institutions shall select an additional 6 semester credit hours from one of more of the following:

<table>
<thead>
<tr>
<th>Component Area</th>
<th>Additional Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communication</strong></td>
<td></td>
</tr>
<tr>
<td>(Composition, speech, modern language*, communication skills)</td>
<td>Up to 6</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td></td>
</tr>
<tr>
<td>(Finite math, statistics, calculus, or higher math)</td>
<td>Up to 3</td>
</tr>
<tr>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Up to 3</td>
</tr>
<tr>
<td><strong>Humanities &amp; Visual and Performing Arts</strong></td>
<td></td>
</tr>
<tr>
<td>(Literature, philosophy, modern or classical language/literature**, and cultural studies)</td>
<td>Up to 3</td>
</tr>
<tr>
<td><strong>Social and Behavioral Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Up to 3</td>
</tr>
<tr>
<td><strong>Institutionally Designated Option</strong></td>
<td></td>
</tr>
<tr>
<td>(May include additional semester credit hours in the categories listed above, computer literacy, health/wellness, kinesiology, capstone or interdisciplinary courses, etc.)</td>
<td>Up to 3</td>
</tr>
<tr>
<td><strong>Total Additional Hours</strong></td>
<td>6</td>
</tr>
</tbody>
</table>

*Communication: application of a modern language means the basic proficiency skills acquired during introductory courses including a working competency in grammar, writing, and listening/comprehension in a foreign language.

**Humanities: application of language skills includes a study of literature in the original language, and/or the cultural studies related to a modern or classical language.
(c) Institutions shall begin to honor student transfer of core courses and core curricula beginning in fall 1998, and must implement the core curriculum requirement by fall 1999.

(d) If a student successfully completes the 42 semester credit hour core curriculum at an institution of higher education, that block of courses may be transferred to any other institution of higher education and must be substituted for the receiving institution's core curriculum. A student shall receive academic credit for each of the courses transferred and may not be required to take additional core curriculum courses at the receiving institution unless the board has approved a larger core curriculum at that institution.

(e) A student concurrently enrolled at more than one institution of higher education shall follow the core curriculum requirements in effect for the institution at which the student is classified as a degree-seeking student.

(f) Except as specified in subsection (g) of this section, a student who transfers from one institution of higher education to another without completing the core curriculum of the sending institution shall receive academic credit within the core curriculum of the receiving institution for each of the courses that the student has successfully completed in the core curriculum of the sending institution. Following receipt of credit for these courses, the student may be required to satisfy the remaining course requirements in the core curriculum of the receiving institution.

(g) Each student must meet the minimum number of semester credit hours in each component area; however, an institution receiving a student in transfer is not required to accept component core course semester credit hours beyond the maximum specified in a core component area.

(h) An institution may include within its core curriculum a course or courses that combine exemplary educational objectives from two or more component areas of the exemplary educational objectives defined in this section.

(i) Each institution must note core courses on the transcript of students as recommended by the Texas Association of Registrars and Admissions Officers.

(j) Each institution must publish and make readily available to students its core curriculum requirements stated in terms consistent with the "Texas Common Course Numbering System."

RULE §5.403 Core Curricula Larger than 42 Semester Credit Hours

(a) An institution may adopt a core curriculum under this subchapter in excess of 42 semester credit hours, but no more than 48 semester credit hours, if the courses in excess of 42 semester credit hours are selected from the first five component areas of Chart II of §5.402 of this title (relating to Core Curriculum (excluding the Institutionally Designated Option)) and are approved by the institution's governing board.
(b) No institution may adopt a core curriculum of more than 42 semester credit hours without approval by the Board if the courses in excess of 42 semester credit hours are selected from component areas other than the first five component areas of Chart II of §5.402 of this title. The Board may approve a core curriculum under this section if:

(1) It has been previously approved by the institution's governing board;

(2) The institution has provided to the Board a narrative justification of the need and appropriateness of a larger core curriculum that is consistent with its role and mission; and

(3) No proposed upper-division core course is substantially comparable in content or depth of study to a lower-division course listed in the "Texas Common Course Numbering System."

RULE §5.404 Criteria for Evaluation of Core Curricula

(a) Each institution must review and evaluate its core curriculum at intervals specified by the board and shall report the results of that review to the board. The evaluation should include:

(1) the extent to which the curriculum is consistent with the elements of the core curriculum recommended by the Board;

(2) the extent to which the curriculum is consistent with the "Texas Common Course Numbering System";

(3) the extent to which the curriculum is consistent with the elements of the core curriculum component areas, intellectual competencies, and perspectives as expressed in "Core Curriculum: Assumptions and Defining Characteristics" adopted by the Board; and

(4) the extent to which the institution's educational goals and the exemplary educational objectives of the core curriculum recommended by the Board are being achieved.

(b) Each institution's evaluation report must contain the following:

(1) a table that compares the institution's core curriculum with the core component areas and exemplary educational objectives of the core curriculum recommended by the Board;

(2) a brief description of the purpose and substance of the institution's core curriculum;

(3) a description of the processes and procedures used to evaluate the institution's core curriculum; and
(4) a description of the ways in which the evaluation results are utilized to improve the core curriculum at the institution.

RULE §5.405 Field of Study Curricula

(a) If a student successfully completes a field of study curriculum developed by the Board, that block of courses may be transferred to a general academic teaching institution and must be substituted for that institution's lower-division requirements for the degree program for the field of study into which the student transfers, and the student shall receive full academic credit toward the degree program for the block of courses transferred.

(b) A student who transfers from one institution of higher education to another without completing the field of study curriculum of the sending institution shall receive academic credit in the field of study curriculum of the receiving institution for each of the courses that the student has successfully completed in the field of study curriculum of the sending institution. Following receipt of credit for these courses, the student may be required to satisfy the remaining course requirements in the field of study curriculum of the receiving institution.

(c) A student concurrently enrolled at more than one institution of higher education shall follow the field of study curriculum requirements of the institution at which the student is classified as a degree-seeking student.

(d) Each institution must review and evaluate its procedures for complying with field of study curricula at intervals specified by the Board and shall report the results of that review to the Board.
CORE CURRICULUM: ASSUMPTIONS AND DEFINING CHARACTERISTICS

April 1998

Senate Bill (SB) 148, enacted in 1997 by the 75th Texas Legislature, requires the Texas Higher Education Coordinating Board to adopt rules that include "a statement of the content, component areas, and objectives of the core curriculum," which each institution is to fulfill by its own selection of specific courses. Those rules are included in Chapter 5, Subchapter S, Sections 5.390 through 5.404. The Coordinating Board has adopted this document in order to provide additional guidance to institutions as they refine their core curricula to comply with SB 148 and the Coordinating Board rules that implement the statute. The Assumptions, Defining Characteristics of Intellectual Competencies, Perspectives, and Exemplary Educational Objectives (listed by component area) contained in this document are derived from the Report of the Advisory Committee on Core Curriculum (1997-98). That Advisory Committee based its work on the 1989 Report of the Subcommittee on Core Curriculum, which the Board received and endorsed in accordance with House Bill 2187 of the 70th Legislature. That legislation required all institutions to adopt, evaluate, and report on an undergraduate core curriculum. Each institution should consider these guiding principles carefully as it proceeds with the revision of its core curriculum.

Assumptions

In establishing its guidelines for core curricula, the Board has made the following assumptions:

1. Every institution of higher education is required by law to adopt a core curriculum of no less than 42 semester credit hours which is consistent with the Texas Common Course Numbering System and the statement, recommendations, and rules issued by The Texas Higher Education Coordinating Board.

   [The Core Curriculum Advisory Committee (1997-1998) has defined "consistent with the Texas Common Course Numbering System" as meeting one of the following criteria: a) the course already has a common course number, b) application for a common course number has been made, or c) the course is not a common course but at least one common course number that may be accepted in lieu of the course is designated by the institution.]

2. If a student successfully completes the 42-hour core at an institution of higher education, that block of courses must be substituted for the receiving institution's core curriculum. A student shall receive academic credit for each of the courses transferred and may not be required to take additional core curriculum courses at the receiving institution unless the Board has approved a larger core curriculum at the receiving institution.

3. Students who transfer without completing the core curriculum shall receive academic credit in the core curriculum of the receiving institution for each of the
courses that the student has successfully completed in the core curriculum of the
sending institution, with certain exceptions noted in the rules [Chapter 5,
Subchapter S, Section 5.403 (h)].

4. The basic intellectual competencies discussed in this document -- reading,
writing, speaking, listening, critical thinking, and computer literacy -- should
inform the components of any core curriculum. Moreover, a core curriculum
should contain courses that provide multiple perspectives about the individual and
the world in which he or she lives; that stimulate a capacity to discuss and reflect
upon individual, political, and social aspects of life so students understand ways
in which to exercise responsible citizenship; and that enable students to integrate
knowledge and understand the interrelationships of the disciplines.

5. There should be no attempt by the state to prescribe a specific set of core courses
or a single core curriculum that would be uniform across all Texas colleges and
universities.

6. A core curriculum should be described and assessed by faculty and institutions in
terms of basic intellectual competencies and perspectives, and of specified student
outcomes, rather than simply in terms of specific courses and course content.

**Defining Characteristics of Basic Intellectual Competencies in the Core Curriculum**

The core curriculum guidelines described here are predicated on the judgment that a
series of basic intellectual competencies - reading, writing, speaking, listening,
critical thinking, and computer literacy - are essential to the learning process in any
discipline and thus should inform any core curriculum. Although students can be
expected to come to college with some experience in exercising these competencies,
they often need further instruction and practice to meet college standards and, later, to
succeed in both their major field of academic study and their chosen career or
profession.

**READING:** Reading at the college level means the ability to analyze and interpret a
variety of printed materials - books, articles, and documents. A core curriculum
should offer students the opportunity to master both general methods of analyzing
printed materials and specific methods for analyzing the subject matter of individual
disciplines.

**WRITING:** Competency in writing is the ability to produce clear, correct, and
coherent prose adapted to purpose, occasion, and audience. Although correct
grammar, spelling, and punctuation are each a sine qua non in any composition, they
do not automatically ensure that the composition itself makes sense or that the writer
has much of anything to say. Students need to be familiar with the writing process
including how to discover a topic and how to develop and organize it, how to phrase
it effectively for their audience. These abilities can be acquired only through practice
and reflection.
**SPEAKING:** Competence in speaking is the ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience. Developing this competency includes acquiring poise and developing control of the language through experience in making presentations to small groups, to large groups, and through the media.

**LISTENING:** Listening at the college level means the ability to analyze and interpret various forms of spoken communication.

**CRITICAL THINKING:** Critical thinking embraces methods for applying both qualitative and quantitative skills analytically and creatively to subject matter in order to evaluate arguments and to construct alternative strategies. Problem solving is one of the applications of critical thinking, used to address an identified task.

**COMPUTER LITERACY:** Computer literacy at the college level means the ability to use computer-based technology in communicating, solving problems, and acquiring information. Core-educated students should have an understanding of the limits, problems, and possibilities associated with the use of technology, and should have the tools necessary to evaluate and learn new technologies as they become available.

Some of these intellectual competencies have traditionally been tied to specific courses required of all students during their first two years of college. For example, courses in college composition, together with mathematics have long been the cornerstone experience of the freshman year. But a single course or two-course sequence in college composition can do little more than introduce students to the principles and practices of good writing. Within the boundary of three to six semester credit hours of course work, neither of these sequences can guarantee proficiency. Moreover, in most curricula there are no required courses specifically dedicated to reading or to critical thinking. Thus, if a core curriculum is to prepare students effectively, it is imperative that, insofar as possible, these intellectual competencies be included among the objectives of many individual core courses and reflected in their course content.

**Perspectives in the Core Curriculum**

Some of these intellectual competencies have traditionally been tied to specific courses required of all students during their first two years of college. For example, courses in college composition, together with mathematics, have long been the cornerstone experience of the freshman year. But a single course or two-course sequence in college composition can do little more than introduce students to the principles and practices of good writing. Within the boundary of three to six semester credit hours of course work, neither of these sequences can guarantee proficiency. Moreover, in most curricula there are no required courses specifically dedicated to reading or to critical thinking. Thus, if a core curriculum is to prepare students effectively, it is imperative
Another imperative of a core curriculum is that it contain courses that help students attain the following:

1. Establish broad and multiple perspectives on the individual in relationship to the larger society and world in which he or she lives, and to understand the responsibilities of living in a culturally and ethnically diversified world;

2. Stimulate a capacity to discuss and reflect upon individual, political, economic, and social aspects of life in order to understand ways in which to be a responsible member of society;

3. Recognize the importance of maintaining health and wellness;

4. Develop a capacity to use knowledge of how technology and science affect their lives;

5. Develop personal values for ethical behavior;

6. Develop the ability to make aesthetic judgments;

7. Use logical reasoning in problem solving; and

8. Integrate knowledge and understand the interrelationships of the scholarly disciplines.

**Instruction and Content in the Core Curriculum**

Education, as distinct from training, demands a knowledge of various contrasting views of human experience in the world. Both the humanities and the visual and performing arts deal with the individual's reaction to the human situation in analytical and creative ways. The social and behavioral sciences deal with the principles and norms that govern human interaction in society and in the production of goods and services. The natural sciences investigate the phenomena of the physical world. Mathematics examines relations among abstract quantities and is the language of the sciences. Composition and communication deal with oral and written language. Each of these disciplines, using its own methodology, offers a different perspective on human experience. Taken together, study in these disciplines provides a breadth of vision against which students can establish and reflect on their own goals and values.

The outcomes specified for the disciplinary areas are thus intended primarily to provide students with a perspective on their experience through an acquaintance with the subject matter and methodology of each discipline. They provide students with the opportunity to understand how these disciplines present varying views of the individual, society, and the world, and of appreciating the methods by which scholars in a given discipline organize and evaluate data. The perspectives acquired in these studies describe the potential, as well as the limitations, of each discipline in understanding the human experience.
The objective of disciplinary studies within a core curriculum is to foster multiple perspectives as well as to inform and deliver content. Disciplinary courses within a core curriculum should promote outcomes focused on the intellectual core competencies, as well as outcomes related to establishing perspectives, and the basic concepts in the discipline - methods of analysis and interpretation specific to the discipline.

Institutions are urged to consider development and utilization of appropriate interdisciplinary courses as a means of helping students develop multiple perspectives on the individual in relationship to other people and societies. Comparison and contrast of disciplinary perspectives on an issue within the context of a single course can be a particularly effective instructional device.

**Core Components and Related Exemplary Educational Objectives**

In designing and implementing a core curriculum of at least 42 semester credit hours, each Texas college and university should select and/or develop courses which satisfy exemplary educational objectives specified for each component area. The following exemplary educational objectives should be used as basic guidelines for selected component areas. Exemplary educational objectives become the basis for faculty and institutional assessment of core components.

Since it is difficult to define exemplary educational objectives for a core curriculum outside of some framework of the general areas of content, the objectives and outcomes described below are suggested as those that meet the intent of Senate Bill 148. The outcomes for student learning provide both guidelines for instruction and a profile of students as they complete each component of a core curriculum. Although these component areas could easily be "translated" directly into disciplinary or departmental terms, it is not necessary to restrict the areas to one or a few departments. These objectives could be met in a number of differing course configurations, including multi-disciplinary courses.

Colleges and universities across the state have specific missions and different roles and scope. The way in which colleges and universities achieve these outcomes will thus vary. These outlines are not intended in any way to impose restrictions on the creativity of the classroom instructor or to dictate pedagogical methods. The emergent profile of the students, however, will presumably have common characteristics insofar as they achieve the specified outcomes. A core curriculum experience will prepare them to learn effectively through the rest of their college years so that they carry these aptitudes for learning into their life careers.

**I. Communication (composition, speech, modern language)**

The objective of a communication component of a core curriculum is to enable the student to communicate effectively in clear and correct prose in a style appropriate to the subject, occasion, and audience.
Exemplary Educational Objectives

1. To understand and demonstrate writing and speaking processes through invention, organization, drafting, revision, editing, and presentation.

2. To understand the importance of specifying audience and purpose and to select appropriate communication choices.

3. To understand and appropriately apply modes of expression, i.e., descriptive, expositive, narrative, scientific, and self-expressive, in written, visual, and oral communication.

4. To participate effectively in groups with emphasis on listening, critical and reflective thinking, and responding.

5. To understand and apply basic principles of critical thinking, problem solving, and technical proficiency in the development of exposition and argument.

6. To develop the ability to research and write a documented paper and/or to give an oral presentation.

II. Mathematics

The objective of the mathematics component of the core curriculum is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real-world problems.

Exemplary Educational Objectives

1. To apply arithmetic, algebraic, geometric, higher-order thinking, and statistical methods to modeling and solving real-world situations.

2. To represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically.

3. To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.

4. To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results.

5. To interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.

6. To recognize the limitations of mathematical and statistical models.
7. To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines.

III. Natural Sciences

The objective of the study of a natural sciences component of a core curriculum is to enable the student to understand, construct, and evaluate relationships in the natural sciences, and to enable the student to understand the bases for building and testing theories.

Exemplary Educational Objectives

1. To understand and apply method and appropriate technology to the study of natural sciences.

2. To recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.

3. To identify and recognize the differences among competing scientific theories.

4. To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.

5. To demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

IV. Humanities And Visual And Performing Arts

The objective of the humanities and visual and performing arts in a core curriculum is to expand students' knowledge of the human condition and human cultures, especially in relation to behaviors, ideas, and values expressed in works of human imagination and thought. Through study in disciplines such as literature, philosophy, and the visual and performing arts, students will engage in critical analysis, form aesthetic judgments, and develop an appreciation of the arts and humanities as fundamental to the health and survival of any society. Students should have experiences in both the arts and humanities.

Exemplary Educational Objectives

1. To demonstrate awareness of the scope and variety of works in the arts and humanities.

2. To understand those works as expressions of individual and human values within an historical and social context.

3. To respond critically to works in the arts and humanities.
4. To engage in the creative process or interpretive performance and comprehend the physical and intellectual demands required of the author or visual or performing artist.

5. To articulate an informed personal reaction to works in the arts and humanities.

6. To develop an appreciation for the aesthetic principles that guide or govern the humanities and arts.

7. To demonstrate knowledge of the influence of literature, philosophy, and/or the arts on intercultural experiences.

V. Social And Behavioral Sciences

The objective of a social and behavioral science component of a core curriculum is to increase students' knowledge of how social and behavioral scientists discover, describe, and explain the behaviors and interactions among individuals, groups, institutions, events, and ideas. Such knowledge will better equip students to understand themselves and the roles they play in addressing the issues facing humanity.

Exemplary Educational Objectives

1. To employ the appropriate methods, technologies, and data that social and behavioral scientists use to investigate the human condition.

2. To examine social institutions and processes across a range of historical periods, social structures, and cultures.

3. To use and critique alternative explanatory systems or theories.

4. To develop and communicate alternative explanations or solutions for contemporary social issues.

5. To analyze the effects of historical, social, political, economic, cultural, and global forces on the area under study.

6. To comprehend the origins and evolution of U.S. and Texas political systems, with a focus on the growth of political institutions, the constitutions of the U.S. and Texas, federalism, civil liberties, and civil and human rights.

7. To understand the evolution and current role of the U.S. in the world.

8. To differentiate and analyze historical evidence (documentary and statistical) and differing points of view.

9. To recognize and apply reasonable criteria for the acceptability of historical evidence and social research.
10. To analyze, critically assess, and develop creative solutions to public policy problems.

11. To recognize and assume one's responsibility as a citizen in a democratic society by learning to think for oneself, by engaging in public discourse, and by obtaining information through the news media and other appropriate information sources about politics and public policy.

12. To identify and understand differences and commonalities within diverse cultures.

VI. INSTITUTIONALLY DESIGNATED OPTION

An institution may wish to include in its core curriculum courses that address exemplary educational objectives not covered in the preceding broad discipline categories. Such courses may include computer literacy, kinesiology, health/wellness, interdisciplinary or linked courses, or other courses that address a specific institutional role and mission.
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Appendix E: Funding Categories
### Appendix E: Funding Category Names and Funding Codes

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<tr>
<th>Category Name</th>
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<td>Architecture &amp; Precision Production Trades</td>
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<tr>
<td>Biology, Physical Sciences &amp; Science Technologies</td>
<td>26, 40, 41</td>
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</tr>
<tr>
<td>Business Management, Marketing &amp; Administrative Services</td>
<td>08, 52</td>
<td>4</td>
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<tr>
<td>Career Pilot</td>
<td>49.0102</td>
<td>5</td>
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<tr>
<td>Communication</td>
<td>09, 10</td>
<td>6</td>
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<tr>
<td>Computer and Information Sciences</td>
<td>11</td>
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<td>Construction Trades</td>
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<td>Consumer and Homemaking Education</td>
<td>12, 13, 19, 20</td>
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<td>English Language, Literature, Philosophy, Humanities &amp; Interdisciplinary</td>
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<td>27, 32.0104</td>
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<td>31, 36.0108, 36.0114</td>
<td>23</td>
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<td>Protective Services and Public Administration</td>
<td>22, 43, 44</td>
<td>24</td>
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<td>Psychology, Social Sciences, and History</td>
<td>05, 42, 45</td>
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