

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.

Associate of Arts in Teaching
Leading to Initial Texas Teacher Certification
EC-4 (except Early Childhood Degree Specialization), 4-8, EC-12
(Adopted by the Coordinating Board on July 15, 2004)

AAT Components – Total: 60-66 SCHs

- core curriculum (42-48 SCHs)
- MATH 1350 and MATH 1351 or equivalent (6 SCHs)
- science (6 SCHs)
- EDUC 1301 and EDUC 2301 (6 SCHs)

EC-Grade 4 Certification (areas)

- EC-4 Generalist (all specializations except early childhood degree specialization)
- EC-4 Bilingual Generalist
- EC-4 ESL Generalist
- EC-4 other content area teaching fields/academic disciplines/interdisciplinary TBA

Grades 4-8 Certification (areas)

- 4-8 Generalist
- 4-8 Bilingual Generalist
- 4-8 ESL Generalist
- 4-8 English Language Arts & Reading
- 4-8 English Language Arts & Reading and Social Studies
- 4-8 Mathematics
- 4-8 Science
- 4-8 Mathematics and Science
- 4-8 Social Studies
- 4-8 other content area teaching fields/academic disciplines/interdisciplinary TBA

EC-Grade 12 Certification (areas)

- EC-12 Special Education
- EC-12 other content area teaching fields/academic disciplines/interdisciplinary TBA

**Associate of Arts in Teaching
Leading to Initial Texas Teacher Certification
8-12, Other EC-12**

(Adopted by the Coordinating Board on July 15, 2004)

AAT Components – Total: 60-66 SCHs

- core curriculum (42-48 SCHs)
- EDUC 1301 and EDUC 2301 (6 SCHs)
- content area teaching fields/academic disciplines (12 SCHs)

Grades 8-12 Certification (areas)

- 8-12 History
- 8-12 Social Studies
- 8-12 Mathematics
- 8-12 Life Sciences
- 8-12 Physical Sciences
- 8-12 Science
- 8-12 English Language Arts & Reading
- 8-12 Computer Science
- 8-12 Technology Applications
- 8-12 Health Science Technology Education
- 8-12 Speech
- 8-12 Journalism
- 8-12 Business Education
- 8-12 Marketing Education
- 8-12 Mathematics & Physics
- 8-12 Agricultural Sciences and Technology
- 6-12 Technology Education
- 8-12 Foreign Languages
- 8-12 Family and Consumer Sciences
- 8-12 Dance
- 8-12 Mathematics & Physical Science & Engineering
- 8-12 Human Development and Family Science
- 8-12 Hospitality, Nutrition and Food Science
- 8-12 Other content area teaching fields/academic disciplines TBA (i.e., Chemistry)

EC-Grade 12 Certification (areas)

- EC-12 Music
- EC-12 Physical Education
- EC-12 Art
- EC-12 Health
- EC-12 Theatre
- EC-12 Technology Applications
- EC-12 Languages other than English
- EC-12 Other content area teaching fields/academic disciplines TBA

Associate of Arts in Teaching
Leading to Initial Texas Teacher Certification
EC-4 Early Childhood Degree Specialization Only¹
(Adopted by the Coordinating Board on July 15, 2004)

AAT Components – Total: 60-66 SCHs

- core curriculum (42-48 SCHs)
- ²MATH 1350 and MATH 1351 or equivalent (6 SCHs)
- TECA 1303, TECA 1311, TECA 1318, and TECA 1354

EC-Grade 4 Certification (areas)

EC-4 Generalist (Early Childhood degree specialization ONLY¹)

¹The Early Childhood "degree specialization" refers only to the degree program offered at a university and not to a particular SBEC certification area. All EC-4 Generalists (except EC-4 Generalist Bilingual and EC-4 Generalist ESL) no matter the university degree specialization take the same TExES examination for certification and are certified to teach in any EC-4 classroom.

²By Board policy adopted January 1997, all EC-4 and 4-8 teacher certification degree programs are required to include 6-9 hours of math and 6-9 hours of science beyond the core curriculum requirements. The science component of the EC-4 Early Childhood degree specialization must be fulfilled but may be taken at the receiving university.

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

<p>36-48 Hour Academic Major-21 hours must be upper-division The lower-division degree requirements must include:</p>	
<p>12 hours of Early Childhood “delivery system” which will include the following:</p> <p>¹Family, School, & Community – TECA 1303</p> <p>¹Educating Young Children – TECA 1311</p> <p>¹Wellness of the Young Child – TECA 1318</p> <p>¹Child Growth & Development – TECA 1354</p> <p>(These courses may be taught in any appropriate department.)</p>	<p>An additional three hours of lower-division course work may be transferred by local agreement from the following topics:</p> <p style="padding-left: 40px;">Infant and Toddler</p> <p style="padding-left: 40px;">Child Guidance</p> <p style="padding-left: 40px;">Early Childhood Creative Arts</p> <p style="padding-left: 40px;">Children with Special Needs</p> <p style="padding-left: 40px;">The School Age Child</p> <p style="padding-left: 40px;">Motor Development</p>

¹ These courses were recently revised by the Lower-Division Academic Course Guide Manual (ACGM) Advisory Committee as a result of the Board approval of the Associate of Arts in Teaching Degree.

¹Field of Study Curriculum for Grade 4-8 Certification

Leading to the:

- ¹Bachelor of Science Degree with Major in Mathematics or
- ¹Bachelor of Science Degree with Major in Science or
- ¹Bachelor of Science Degree with Major in Mathematics/Science Composite or
- ¹Bachelor of Science Degree with Major in Social Sciences/Language Arts Composite or
- ¹Bachelor 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:	
² EDUC 1301, Introduction to the Teaching Profession (3SCH) <ul style="list-style-type: none"> - Designed as recruitment or outreach course - Will allow special emphasis for regional needs - Includes 30 contact hour field observation component 	An additional 3 SCH of lower-division course work from the following may be transferred by local agreement: Beginning or Intermediate Spanish - Current ACGM courses Physical Science - Current ACGM course Principles of Geography - Current ACGM course ² EDUC 2301, Introduction to Special Populations ² EDUC 1325, Principles and Practices of Multicultural Education
² MATH 1350, Fundamentals of Math I (3 SCH) <ul style="list-style-type: none"> - With College Algebra prerequisite or equivalent competencies - First of two math courses - Incorporates SBEC proposed math standards - ³Will satisfy 6-9 SCH math requirement as per Board policy 	
² MATH 1351, Fundamentals of Math II (3 SCH) <ul style="list-style-type: none"> - With College Algebra prerequisite or equivalent competencies - Second of two math courses - Incorporates SBEC proposed math standards - ³Will satisfy 6-9 SCH math requirement as per Board policy 	
Child and Lifespan Development or TECA 1354, Child Growth and Development (3 SCH) <ul style="list-style-type: none"> - If Child and Lifespan Development, limited to child and adolescent emphasis 	

¹Each 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.

²These courses were recently revised by the Lower-Division Academic Course Guide Manual (ACGM) Advisory Committee as a result of the Board approval of the Associate of Arts in Teaching Degree.

³In January 1997, the Coordinating Board adopted a policy requiring all teacher certification programs to include 6-9 hours of math.

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

Content Area	Number and type of courses	Texas Common Course Numbering System (TCCNS) Equivalents
Economics	2 courses: Microeconomics & Macroeconomics	ECON 2301 & 2302 only
Mathematics	1 course: Minimum content must be at the level of Calculus or above	MATH 1325 ¹
Computer Literacy	1 course: New course, with a TCCNS BCIS prefix to be assigned ²	BCIS 13XX or 14XX only
Speech	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	SPCH 1311 (with appropriate content only), or SPCH 1315, or SPCH 1321 (preferred) only
Accounting	2 courses: Financial & Managerial Accounting	ACCT 2301 or 2401 & 2302 or 2402 only

¹Individual institutions should determine any prerequisite requirements for MATH 1325.

²This 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 Curricula for Communication Framework

Communication degrees must be flexible and adaptable due to rapidly changing and emerging communication technologies. Therefore, the Advisory Committee to Develop a Field of Study Curriculum for Communication (Committee) intends that the Field of Study Curricula for Communication (FOSC for Communication) will serve as a *framework* within which: (1) current students may transfer more easily between state-supported institutions, and (2) new communication media degrees may be developed or adapted as the communication technology evolves.

To accomplish those dual goals, the Committee has chosen to list broad competencies under which 12 to 15 semester credit hours (SCH) of lower-division coursework in each degree plan constitute the FOSC for Communication for Bachelor of Arts (BA) and Bachelor of Science (BS) degree programs in all communication areas (listed as Communications, general). Each of four sub-areas in Communication would constitute a discrete Field of Study Curriculum: (1) Advertising/Public Relations, (2) Journalism/Mass Communication, (3) Radio & Television Broadcasting/Broadcast Journalism, and (4) General Communication/Communication Studies/Speech Communication/Speech & Rhetorical Studies/Organizational Communication.

A student who transfers from one institution of higher education to another without completing the applicable sub-area Field of Study Curriculum for Communication of the sending institution shall receive academic credit in the sub-area Field of Study Curriculum for each of the courses that the student has successfully completed in the sub-area Field of Study Curriculum of the sending institution. Following receipt of credit for these courses, the student may be required to satisfy further course requirements in the sub-area Field of Study Curriculum of the receiving institution. Practicum and internship hours are subject to the approval of the receiving institution.

The Committee has designated a “menu” of specific courses that would fulfill the applicable competency area in the Field of Study Curriculum for that sub-area. The Committee further has given institutions latitude in selecting the number of SCH within each competency area that they will set as their degree requirements for their native students. However, each institution will accept the complete sub-area Field of Study Curriculum and apply the credit toward the appropriate communication degree program for the block of courses transferred.

Institutions that choose to offer a Field of Study Curriculum for one or more sub-areas in Communication are not required to offer all courses included in the applicable sub-area menu(s). Rather, such institutions are required to offer a 12-to-15-SCH block of courses for the applicable sub-area, which includes at least 6 to 9 SCH of courses listed under Competency Area 1 and 3 to 9 SCH of courses listed under Competency Area 2. The communication faculty at each institution that offers FOSC for Communication may designate from among the courses included in each menu specific courses in their programs that will fulfill the FOSC for Communication competencies. These courses will comprise the 12-to-15-SCH FOSC for Communication that will transfer between Texas higher education institutions as the lower-division requirements for a baccalaureate degree in the various communication areas.

Colleges and universities will accept at least a 12-SCH block, with an institutional prerogative to accept 15 SCH. Colleges and universities may deny the transfer of credit for courses with a grade of “D” as applicable to the student’s field of study courses. Transfer students may be required to complete between 3 and 6 additional lower-division SCH in their majors, if the receiving institution has additional lower-division courses that are: (1) specific to any communication degree, (2) required of their native students, (3) needed for the successful completion of advanced coursework at that institution, and (4) not

duplicative in content of any course in the applicable sub-area Field of Study Curriculum for Communication that the student already has completed.

The Field of Study Curricula for Communication may serve as the foundation for teacher preparation and must be included in teacher certification requirements, but the Field of Study Curricula do not constitute the complete body of knowledge or competencies needed by and expected of certified teachers of communication. Therefore it is recommended that certification of K-12 teachers in any area of communication be limited exclusively to those with an earned four-year degree in that area of communication. (Note: Certification of K-12 teachers in Texas is under the authority of the State Board for Educator Certification.)

Implementing these Field of Study Curricula for Communication or any other field of study depends upon trained academic advisers at each institution. The Committee urges the Coordinating Board to require that institutions adopt policies and procedures for the training of academic counselors to implement the FOSC for Communication frameworks.

Field of Study Curricula for Communication -- Competencies

Competency descriptions: The total semester credit hours (SCH) for the Field of Study Curricula for Communication must be between 12 to 15 SCH taken from the competencies below:

Competency Area 1

- 6 to 9 SCH through which students gain **historical, theoretical, and/or analytical competency** of the communication field and/or sub-area (Advertising/Public Relations, Journalism/Mass Communication, Radio & Television Broadcasting/Broadcast Journalism, or General Communication/Communication Studies/Speech Communication/Speech & Rhetorical Studies/Organizational Communication).

Competency Area 2

- 3 to 9 SCH in which students demonstrate competency in **writing/performance/production** courses relevant to the sub-area.

For each of the current sub-areas in Communication (Advertising/Public Relations, Journalism/Mass Communication, Radio & Television Broadcasting/Broadcast Journalism, or General Communication/Communication Studies/Speech Communication/Speech & Rhetorical Studies/Organizational Communication), the courses listed in the following table would fulfill the applicable competency area in the FOSC for Communication. *However, institutions that choose to offer a Field of Study Curriculum for one or more sub-areas in Communication are not required to offer all courses included in the applicable sub-area menu(s).*

Field of Study Curricula for Communication – Courses*

- Note for students and counselors: For each of the current sub-areas in Communication, the courses listed would fulfill the applicable competency area in the Field of Study Curriculum for that sub-area. Existing and proposed courses are listed in alphabetical order, based on their generic *Lower-Division Academic Course Guide Manual* (ACGM) course names. Because institutions may have different course titles for the same ACGM course, Texas Common Course Numbers (TCCN) are included in parentheses. Courses with a grade of “D” or lower will not transfer.
- Note for institutions: Each institution will accept the complete sub-area Field of Study Curriculum and apply the credit toward the appropriate communication degree program for the block of courses transferred. Institutions will accept at least a 12-SCH block, with an institutional prerogative to accept 15 SCH. Institutions that choose to offer a Field of Study Curriculum for one or more sub-areas in Communication are not required to offer all courses included in the applicable sub-area menu(s). Rather, such institutions are required to offer a 12-to-15-SCH block of courses for the applicable sub-area, which includes at least 6-9 SCH of courses listed under Competency Area 1 and 3-9 SCH of courses listed under Competency Area 2.

Total Block of 12 SCH (15-SCH block accepted at prerogative of accepting institution)		Sub-Areas**			
		Advertising/Public Relations	Journalism/Mass Communication	Radio & Television Broadcasting/ Broadcast Journalism	General Communication/ Communication Studies/Speech Communication/ Speech & Rhetorical Studies/ Organizational Communication
Competency Area 1	Historical/ Theoretical/ Analytical 6-9 SCH selected from:	<ul style="list-style-type: none"> • Intro to Mass Comm. (COMM 1307) • Intro to Public Relations (COMM 2330) • Intro to Technology & Human Communication (SPCH/COMM 2301) • Media Literacy (COMM 2300) • Intro to Advertising (COMM 2327) 	<ul style="list-style-type: none"> • Intro to Mass Comm. (COMM 1307) • Intro to Public Relations (COMM 2330) • Intro to Technology & Human Communication (SPCH/COMM 2301) • Media Literacy (COMM 2300) • News Gathering & Writing I (COMM 2311)* • Intro to Advertising (COMM 2327) • Principles of Journalism (COMM 2302) • Survey of Radio/TV (COMM 1335) 	<ul style="list-style-type: none"> • Intro to Film (DRAM 2366/COMM 2366) • Intro to Mass Comm. (COMM 1307) • Intro to Technology & Human Communication (SPCH/COMM 2301) • Media Literacy (COMM 2300) • Survey of Radio/TV (COMM 1335) 	<ul style="list-style-type: none"> • Discussion & Small Group Communication (SPCH 2333) • Interpersonal Communication (SPCH 1318) • Intro to Speech Communication (SPCH 1311) • Intro to Technology & Human Communication (SPCH/COMM 2301)
	Writing/ Performance/ Production 3-9 SCH selected from:	<ul style="list-style-type: none"> • Advertising Art I (COMM 2328) • Advertising Art II (COMM 2329) • Editing & Layout (COMM 2305) • News Gathering & Writing I (COMM 2311) • News Gathering & Writing II (COMM 2315) • Photography I (COMM 1318) • Photography II (COMM 1319) • Radio/TV News (COMM 2332) • TV Production I (COMM 1336) • TV Production II (COMM 1337) • Writing for Radio, TV, & Film (COMM 2339) 	<ul style="list-style-type: none"> • Editing & Layout (COMM 2305) • Interviewing (SPCH/COMM 2316) • News Gathering & Writing I (COMM 2311)* • News Gathering & Writing II (COMM 2315) • News Photography I (COMM 1316) • News Photography II (COMM 1317) • Photography I (COMM 1318) • Photography II (COMM 1319) • Radio/TV News (COMM 2332) • Writing for Radio, TV, & Film (COMM 2339) 	<ul style="list-style-type: none"> • Audio/Radio Production (COMM 2303) • Interviewing (SPCH/COMM 2316) • Intro to Cinematic Production (COMM 2304) • News Gathering & Writing I (COMM 2311) • News Gathering & Writing II (COMM 2315) • Radio/TV Announcing (COMM 2331) • Radio/TV News (COMM 2332) • TV Production I (COMM 1336) • TV Production II (COMM 1337) • Writing for Radio, TV, & Film (COMM 2339) 	<ul style="list-style-type: none"> • Interviewing (SPCH/COMM 2316) • Argumentation & Debate (SPCH 2335) • Business & Professional Communication (SPCH 1321) • Oral Interpretation (SPCH 2341) • Public Speaking (SPCH 1315) • Voice & Diction (SPCH 1342)

* A course may count toward only one competency area, as designated by the sending institution.

** Each sub-area constitutes a discrete Field of Study Curriculum. Students who change emphasis from one sub-area to another should expect a change of sub-area Field of Study Curriculum.

Note: Transfer students may be required to complete between 3 to 6 additional lower-division SCH in their major, if the receiving institution has additional lower-division courses that are: 1) specific to any communication degree, 2) required of their native students, 3) needed for the successful completion of advanced coursework at that institution, and 4) not duplicative in content of any course in the applicable sub-area Field of Study Curriculum for Communication that the student already has completed.

Field of Study Curriculum for Computer Science

Course Content	Prefix & Number	Course Name	Course Type	Semester Credit Hour (SCH)
Computer Science	COSC 1336 or 1436	Programming Fundamentals I	ACGM	3 or 4
Computer Science	COSC 1337 or 1437	Programming Fundamentals II	ACGM	3 or 4
Computer Science	COSC 2336 or 2436	Programming Fundamentals III	ACGM	3 or 4
Computer Science	COSC 2325 or 2425	Computer Organization and Machine Language	ACGM	3 or 4
Math	MATH 2313 or 2413	Calculus I	ACGM	3 or 4
Math	MATH 2314 or 2414	Calculus II	ACGM	3 or 4
Physics	PHYS 2425	Physics I	ACGM	4
Physics	PHYS 2426	Physics II	ACGM	4
				26-32 SCH Total

Notes:

1. COSC 1336/1436 and 1337/1437 are preparatory and sequential in nature; however, not all courses are required for the Computer Science major at all universities, but may apply to general degree requirements.
 - a) COSC 1336/1436 is not part of the Computer Science major requirements at The University of Texas at Austin, University of Texas at Arlington, University of Texas at Dallas, and Texas A & M University.
 - b) COSC 1337/1437 is not part of the Computer Science major requirements at The University of Texas at Austin. Preparatory courses such as COSC 1336/1436 and COSC 1337/1437 will assist students that need additional background but do not apply toward the computer science major requirements.
2. COSC 2325/2425 is not part of the Computer Science major requirements at the University of Texas at Austin or Texas A&M University, but may be applied to general degree requirements.
3. It is recommended that students complete the math sequence, physics sequence, and computer science sequence at the same institution to reduce the likelihood of potential gaps in the curriculum.

Field of Study Curriculum for Criminal Justice

The Criminal Justice 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 Arts (BA) or Bachelor of Science (BS) degree with a major in criminal justice, 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 Criminal Justice; the curriculum would apply to institutions that award the BA or BS degree with a major in criminal justice, including all criminal justice specializations.

Based on that information, the Committee recommends the following set of courses (totaling 15 semester credit hours (SCH) of fully transferable and applicable lower-division courses) and up to an additional 6 “discretionary” SCH to be considered as a Field of Study Curriculum for Criminal Justice. Staff concurs with that recommendation.

Courses

TCCNS*	SCH	COURSE TITLE
CRIJ 1301	3	Introduction to Criminal Justice
CRIJ 1306	3	Court Systems & Practices
CRIJ 1310	3	Fundamentals of Criminal Law
CRIJ 2313	3	Correctional Systems & Practices
CRIJ 2328	3	Police Systems & Practices

*Texas Common Course Numbering System

NOTE: Up to a total of 6 additional semester credit hours of criminal justice-related lower-division course work may be transferred by local agreement **OR** required by the receiving institution, as long as the additional credit does not duplicate any other requirement within the field of study curriculum. Standards of instruction accepted for courses in the *Lower-Division Academic Course Guide Manual (ACGM)* will apply unless course-equivalent status has been developed by local agreement.

Field of Study Curriculum for Engineering

Engineering is a very broad field that covers many disciplines; consequently, there is significant variance in engineering curricula among our state institutions. Even within an engineering specialty like chemical or electrical engineering there are differences that reflect varied areas of focus or innovations from one institution to the next. Nevertheless, the field of study curriculum for engineering is designed to promote maximum transferability for students while still preserving appropriate curricular diversity for institutions. As indicated in the following table, some field of study courses apply to any undergraduate engineering program, while other courses apply when the engineering program at the receiving institution requires such courses.

Therefore, there are no discrete field of study courses for specific specialties of engineering (chemical, civil, electrical, mechanical, etc.) Rather, a course is considered part of the field of study curriculum for an engineering program if:

- 1) it is listed in the table as applying to “all programs;”
- or**
- 2) it is listed as applying to “only those programs requiring the course” **and** is required by the program at the receiving institution.*

If a course is not listed as a field of study course, then (as is the usual practice), a student can still transfer the course if there is a local agreement between the sending and receiving institutions.

The content areas of the field of study courses are from two areas of mathematics, two areas of science, and two areas of engineering. For a number of students, credits in some of these math and science courses would also satisfy components of the core curriculum. Note that additional matrices that follow the field of study table specify in more detail how certain configurations of coursework transfer.

Courses contained in the field of study curriculum for engineering (as defined by this document) will transfer freely among Texas public institutions of higher education. Receiving institutions may, however, require transfer students to successfully complete courses that are not part of this field of study curriculum if completion of those courses is required of all students in order to receive a baccalaureate degree in engineering. In addition, the receiving institution can specify minimum acceptable grades for courses accepted in transfer.

*For example, a student at Community College X completed a General Chemistry II (Chem II) course and wishes to transfer to a mechanical engineering program at a university. General Chemistry II is designated in the Field of Study as “only those programs requiring Chem II.” Therefore, if the mechanical engineering program at University A requires Chem II, then this institution would have to accept the course in transfer. But if the mechanical engineering program at University B does not require Chem II, then this institution would not be obligated to accept the course in transfer as part of the major.

Further, if the mechanical engineering program at University A at some point eliminates the General Chemistry II requirement, then the institution must accept Chem II in transfer as part of the major only if the student completed the course when the Chem II requirement (indicated in the university's catalog for that year) was still in effect. If the mechanical engineering program at University B at some point adds General Chemistry II as a requirement, the institution must then start accepting Chem II in transfer to be applied to the major.

FIELD OF STUDY CURRICULUM FOR ENGINEERING

Content Area	Academic Course Guide Manual (ACGM) Title	ACGM Course No.	SCH	Applicable Engineering Programs
Calculus	Any combination of: Calculus I (3 or 4 SCH versions); Calculus II (3 or 4 SCH versions); Calculus III (3 or 4 SCH versions) that total a minimum of 8 SCH	MATH 2313 MATH 2413 MATH 2314 MATH 2414 MATH 2315 MATH 2415	8 – 12 ¹	All
Differential Equations/ Linear Algebra	Differential Equations (3 or 4 SCH version)	MATH 2320 MATH 2420	3 – 8	Only those programs requiring these course(s) – See matrix #1
	Linear Algebra (3 or 4 SCH version)	MATH 2318 MATH 2418		
	Differential Equations and Linear Algebra (3 or 4 SCH version)	MATH 2321 MATH 2421		
Chemistry	General Chemistry II (lecture & lab) OR General Chemistry II (lecture) AND General Chemistry Laboratory II	CHEM 1412 CHEM 1312 CHEM 1112	4	Only those programs requiring CHEM II
Physics (Calculus-based)	University Physics I (lecture) OR University Physics I (lecture and lab) AND University Physics II (lecture) OR University Physics II (lecture and lab)	PHYS 2325 PHYS 2425 PHYS 2326 PHYS 2426	6 – 8 ¹	Lecture component required by all – See matrix # 2
	University Physics Laboratory I AND University Physics Laboratory II	PHYS 2125 PHYS 2126		
Circuits	Circuits I for Electrical Engineering	ENGR 2305	3	Only those programs requiring Circ I (major and non majors)
Engineering Mechanics	Engineering Mechanics I – Statics (3 or 4 SCH version)	ENGR 2301 ENGR 2401	3 - 8	Only those programs requiring these course(s) – See matrix #3
	Engineering Mechanics II – Dynamics (3 or 4 SCH version)	ENGR 2302 ENGR 2402		
	Statics and Dynamics (3 or 4 SCH version)	ENGR 2303 ENGR 2403		

TOTAL SCH 27 - 43

¹ A student completing coursework totaling less than the minimum SCH requirements for calculus and physics lecture will obtain transfer credit at the receiving institution for each course successfully completed at the sending institution.

The following three matrices show how specified courses and combination of these courses would transfer from the sending to the receiving institution for field of study engineering courses.

✓ = transfers; x = does not transfer; other is explained by text.

Matrix 1. Differential Equations and Linear Algebra

Receiving Institution

Course	Differential Equations	Linear Algebra	Differential Equations and Linear Algebra (combined)
Differential Equations	✓	x	The Differential Equations course and the Linear Algebra course <u>together</u> transfer as the combined course
Linear Algebra	x	✓	
Diff. Eq. and Linear Alg. (combined)	Decided by receiving institution	Decided by receiving institution	✓

Note: The transferable courses in this table are considered part of the field of study curriculum if the program of the receiving institution requires them.

The interpretation of this matrix is as follows:

- A student who has taken only Differential Equations (DE) would receive credit for DE (if it was required by the receiving institution) but would not receive credit for Linear Algebra (LA) or the combined DE/LA course.
- Similarly, a student who has taken only LA would receive credit for LA (if it was required by the receiving institution) but would not receive credit for DE or the combined DE/LA course.
- A student who has taken both DE and LA would get credit for both DE and LA (if both courses were required by the receiving institution) or the student would receive credit for the combined DE/LA course (if it was required). In the latter case, a student would receive the number of credits in the combined course. For example, if a student has taken a 3 SCH DE course and a 3 SCH LA course and transfers to a university that offers and requires only a 3 SCH DE/LA course, then that student would receive transfer credit of 3 SCH for the combined DE/LA course.

- A student who has taken the combined DE/LA course would get credit for the combined course (if it were required by the receiving institution). However, if the receiving institution required either the separate DE course or the LA course or both, then the receiving institution could decide whether to award any credit for the student’s combined DE/LA course.

Matrix 2. University Physics

Receiving Institution

		Receiving Institution		
Sending Institution		Physics – lecture only (3 SCH)	Physics – lab only (1 SCH)	Physics – lecture and lab combined (4 SCH)
Sending Institution	Physics lecture	✓	x	The lecture course and the lab course <u>together</u> transfer as the combined lecture and lab course
	Physics lab	x	✓	
	Physics lect. and lab (combined)	Transfers as the lecture only or as both the lecture course and the lab course		✓

Note: The lecture component is a required field of study course. The lab component is a field of study course if the program of the receiving institution requires it.

Matrix 3. Engineering Mechanics—Statics and Dynamics

Receiving Institution

		Receiving Institution		
Sending Institution		Statics	Dynamics	Statics and Dynamics (combined)
Sending Institution	Statics	✓	x	The Statics course and the Dynamics course <u>together</u> transfer as the combined course
	Dynamics	x	✓	
	Statics and Dynamics (combined)	Decided by receiving institution	Decided by receiving institution	✓

Note: The transferable courses in this table are considered part of the field of study curriculum if the program of the receiving institution requires them.

Field of Study Curricula for Engineering Technology

Bachelor of Science degree with a major in:

- Civil Engineering Technology
- Computer Engineering Technology
- Construction Engineering Technology
- Electrical Engineering Technology
- Electronics Engineering Technology
- Manufacturing Engineering Technology
- Mechanical Engineering Technology

Civil Engineering Technology Track

There are three universities in Texas that offer Civil Engineering Technology degrees. All institutions have the same Math requirements, but Physics requirements vary across these three institutions. Review of the Physics requirements in these programs suggest two sub-tracks: (1) Calculus and Algebra-based Physics and (2) Calculus and Calculus-based Physics. Therefore, this field of study curriculum will offer two sub-tracks to accommodate all institutional requirements.

Computer Engineering Technology Track

There are three universities in Texas that offer Computer Engineering Technology degrees; Math and Physics requirements are the same across these three institutions. Reviews of the Math and Physics requirements in these programs suggest one track: Calculus and Algebra-based Physics. Therefore, this field of study curriculum offers a single track to accommodate all institutional requirements.

Construction Engineering Technology Track

There are seven universities in Texas that offer Construction Engineering Technology degrees; Math and Physics requirements vary across these seven institutions. Review of the Math and Physics requirements in these programs suggest three sub-tracks: (1) Algebra and Algebra-based Physics, (2) Calculus and Algebra-based Physics, and (3) Calculus and Calculus-based Physics. Therefore, this field of study curriculum offers three sub-tracks to accommodate all institutional requirements.

Electrical Engineering Technology Track

There are two universities in Texas that offer Electrical Engineering Technology degrees. Review of the Math and Physics requirements in these programs suggest one sub-track: Calculus and Algebra-based Physics. Therefore, this field of study curriculum offers a single sub-track to accommodate all institutional requirements.

Electronics Engineering Technology Track

There are seven universities in Texas that offer Electronics Engineering Technology degrees. Math and Physics requirements vary across these seven institutions. Review of the Math and Physics requirements in these programs suggest three sub-tracks: (1) Algebra and Algebra-

based Physics, (2) Calculus and Algebra-based Physics, and (3) Calculus and Calculus-based Physics. Therefore, this field of study curriculum offers three sub-tracks to accommodate all institutional requirements.

Manufacturing Engineering Technology Track

There are thirteen universities in Texas that offer Manufacturing Engineering Technology degrees. The Math and Physics requirements vary across these thirteen institutions. A review of the Math and Physics requirements in these programs suggest three sub-tracks: (1) Algebra and Algebra-based Physics, (2) Calculus and Algebra-based Physics, and (3) Calculus and Calculus-based Physics. Therefore, this field of study curriculum offers three sub-tracks to accommodate all institutional requirements.

Mechanical Engineering Technology Track

There are seven universities in Texas that offer Mechanical Engineering Technology degrees; Math and Physics requirements vary across these institutions. Review of the Math and Physics requirements in these programs suggest two sub-tracks: (1) Calculus and Algebra-based Physics, and (2) Calculus and Calculus-based Physics. Therefore, this field of study curriculum offers two sub-tracks to accommodate all institutional requirements.

Notes:

1. The following abbreviations were used for Texas public four-year universities:

LAMAR	Lamar University
MSU	Midwestern State University
PVAMU	Prairie View A&M University
SHSU	Sam Houston State University
SRSU	Sul Ross State University
SWTSU	Southwest Texas State University
TAMU	Texas A&M University
TAMUC	Texas A&M University-Commerce
TAMU-CC	Texas A&M University-Corpus Christi
TASU	Tarleton State University
TSU	Texas Southern University
TTU	Texas Tech University
UH	University of Houston
UH-D	University of Houston-Downtown
UNT	University of North Texas
UT-B	The University of Texas at Brownsville
UT-T	The University of Texas at Tyler
WTAMU	West Texas A&M University

2. Mathematics Requirement — As mentioned above, there is considerable variation across all of the institutions of higher education in Texas and across the seven Engineering Technology majors about which level of mathematics is required (i.e., algebra and trigonometry or precalculus, or calculus). Because of this variation, the Committee and the staff recommend that students be advised that the specific major and institution they select for transfer will determine the appropriate mathematics requirement.

3. **Physics Requirement** — Although all tracks and institutions require a lab-based physics course, some require a calculus-based physics course while others require an algebra-based physics course. The reference to algebra-based physics refers to a course that includes knowledge of trigonometry and/or precalculus. Students are advised to determine the requirements of the particular institution and Engineering Technology major they will pursue to determine the appropriate physics requirement.
4. For students wanting to obtain bachelor's degrees in a particular major from a particular institution, advisors and students should be fully informed about differences among sub-tracks.
5. If an institution has decided that course(s) taken by a student at another institution from a particular field of study curriculum are not required to obtain a degree in Engineering Technology, those course(s) may nevertheless transfer as electives. Further, all course(s) listed on the field of study curriculum do not have to be offered by all institutions, but the institutions must honor courses which are part of the field of study curriculum. Appropriate Southern Association of Colleges and Schools (SACS) criteria must be met before any course(s) can be offered.
6. If a student pursues a non-calculus-based course of study and transfers to a calculus-based baccalaureate program, that program may require the student to take additional work in calculus as needed.
7. Receiving institutions may require transfer students to successfully complete courses that are not a part of this field of study curriculum if completion of those courses is required of all students in order to receive a baccalaureate degree in Engineering Technology. An institution may require additional lower-division courses when the field of study curricula does not specify content required for a degree program. However, the additional courses must not duplicate content already addressed within the field of study curricula.

Civil Engineering Technology

Content Area	*Sub-Track 1	**Sub-Track 2	Semester Credit Hours (SCH)
Mathematics	Calculus I (MATH 2413)		4
	Calculus II (MATH 2414)		4
Physical Sciences	Physics I (Algebra-based) (PHYS 1401)	Physics I (Calculus-based) (PHYS 2425)	4
	Physics II (Algebra-based) (PHYS 1402)	Physics II (Calculus-based) (PHYS 2426)	4
Physical Sciences	Chemistry I (CHEM 1411)		4
Engineering	Engineering Design Graphics (ENGR 1304)		3
Engineering	Surveying (ENGR 1407)		4
Technology	¹ AC/DC Circuits (ENGT 1409)		4
Technology	² Materials and Methods (ENGT 2304)		3
English	³ Technical and Business Writing (ENGL 2311)		3
			37 Total SCH

*Sub-Track 1 allows transfer to the following institutions: UH-D and TSU.

**Sub-Track 2 allows transfer to UNT and all of the institutions listed in sub-track 1.

¹All institutions accept ENGT 1409. Institutions are encouraged to accept the Workforce Education Course Manual (WECM) equivalent course CETT 1409 but are not required to do so.

¹All institutions accept ENGT 2304. Institutions are encouraged to accept the Workforce Education Course Manual (WECM) equivalent course CNBT 2304 but are not required to do so.

³All institutions accept ENGL 2311. Institutions are encouraged to accept the Workforce Education Course Manual (WECM) equivalent course ETWR 2301 but are not required to do so.

Computer Engineering Technology

Content Area	*Sub-Track 1	Semester Credit Hours (SCH)
Mathematics	Calculus I (MATH 2413)	4
	Calculus II (MATH 2414)	4
Physical Sciences	Physics I (Algebra-based) (PHYS 1401)	4
	Physics II (Algebra-based) (PHYS 1402)	4
Physical Sciences	Chemistry I (CHEM 1411)	4
Technology	Circuits I (ENGT 1401)	4
Technology	Circuits II (ENGT 1402)	4
Technology	Digital Fundamentals (ENGT 1407)	4
English	¹ Technical and Business Writing (ENGL 2311)	3
		35 Total SCH

*Sub-Track 1 allows transfer to all institutions offering a degree in this area including: UH, PVAMU, and UH-D.

¹ All institutions accept ENGL 2311. Institutions are encouraged to accept the Workforce Education Course Manual (WECM) equivalent course ETWR 2301 but are not required to do so.

Construction Engineering Technology

Content Area	*Sub-Track 1	**Sub-Track 2	***Sub-Track 3	Semester Credit Hours (SCH)
Mathematics	College Algebra (MATH 1314)	Calculus I (MATH 2413)	Calculus I (MATH 2413)	3-4
	Plane Trigonometry (MATH 1316) OR PreCalculus) (MATH 2412)	Calculus II (MATH 2414)	Calculus II (MATH 2414)	3-4
Physical Sciences	Physics I (Algebra-based) (PHYS 1401)	Physics I (Algebra-based) (PHYS 1401)	Physics I (Calculus-based) (PHYS 2425)	4
	Physics II (Algebra-based) (PHYS 1402)	Physics II (Algebra-based) (PHYS 1402)	Physics II (Calculus-based) (PHYS 2426)	4
Physical Sciences	Chemistry I (CHEM 1411)			4
Engineering	Engineering Design Graphics (ENGR 1304)			3
Engineering	Surveying (ENGR 1407)			4
Technology	¹ AC/DC Circuits (ENGT 1409)			4
Technology	² Materials and Methods (ENGT 2304)			3
English	³ Technical and Business Writing (ENGL 2311)			3
				35-37 Total SCH

*Sub-Track 1 allows transfer to the following institutions: SHSU, SWTSU, and TAMUC.

**Sub-Track 2 allows transfers to TAMU, TTU, UH and all of the institutions listed in sub-track 1.

***Sub-Track 3 allows transfer to UNT and all of the institutions listed in sub-tracks 1 and 2.

¹All institutions accept ENGT 1409. Institutions are encouraged to accept the Workforce Education Course Manual (WECM) equivalent course CETT 1409 but are not required to do so.

²All institutions accept ENGT 2304. Institutions are encouraged to accept the Workforce Education Course Manual (WECM) equivalent course CNBT 2304 but are not required to do so.

³All institutions accept ENGL 2311. Institutions are encouraged to accept the Workforce Education Course Manual (WECM) equivalent course ETWR 2301 but are not required to do so.

Electrical Engineering Technology

Content Area	*Sub-Track 1	Semester Credit Hours (SCH)
Mathematics	Calculus I (MATH 2413)	4
	Calculus II (MATH 2414)	4
Physical Sciences	Physics I (Algebra-based) (PHYS 1401)	4
	Physics II (Algebra-based) (PHYS 1402)	4
Physical Sciences	Chemistry I (CHEM 1411)	4
Technology	Circuits I (ENGT 1401)	4
Technology	Circuits II (ENGT 1402)	4
Technology	Digital Fundamentals (ENGT 1407)	4
English	¹ Technical and Business Writing (ENGL 2311)	3
		35 Total SCH

*Sub-Track 1 allows transfer to the following institutions: UH and PVAMU.

¹ All institutions accept ENGL 2311. Institutions are encouraged to accept the Workforce Education Course Manual (WECM) equivalent course ETWR 2301 but are not required to do so.

Electronics Engineering Technology

Content Area	*Sub-Track 1	**Sub-Track 2	***Sub-Track 3	Semester Credit Hours (SCH)
Mathematics	College Algebra (MATH 1314)	Calculus I (MATH 2413)	Calculus I (MATH 2413)	3-4
	Plane Trigonometry (MATH 1316) OR PreCalculus) (MATH 2412)	Calculus II (MATH 2414)	Calculus II (MATH 2414)	3-4
Physical Sciences	Physics I (Algebra-based) (PHYS 1401)	Physics I (Algebra-based) (PHYS 1401)	Physics I (Calculus-based) (PHYS 2425)	4
	Physics II (Algebra-based) (PHYS 1402)	Physics II (Algebra-based) (PHYS 1402)	Physics II (Calculus-based) (PHYS 2426)	4
Physical Sciences	Chemistry I (CHEM 1411)			4
Technology	Circuits I (ENGT 1401)			4
Technology	Circuits II (ENGT 1402)			4
Technology	Digital Fundamentals (ENGT 1407)			4
English	¹ Technical and Business Writing (ENGL 2311)			3
				33-35 Total SCH

*Sub-Track 1 allows transfer to the following institution: SHSU.

**Sub-Track 2 allows transfer to the following institutions: TTU, TSU, UT-B and the institution listed in sub-track 1.

***Sub-Track 3 allows transfer to all institutions in sub-tracks 1 and 2 and also to TAMU, UNT, and TAMU-CC.

¹ All institutions accept ENGL 2311. Institutions are encouraged to accept the Workforce Education Course Manual (WECM) equivalent course ETWR 2301 but are not required to do so.

Manufacturing Engineering Technology

Content Area	*Sub-Track 1	**Sub-Track 2	***Sub-Track 3	Semester Credit Hours (SCH)
Mathematics	College Algebra (MATH 1314)	Calculus I (MATH 2413)	Calculus I (MATH 2413)	3-4
	Plane Trigonometry (MATH 1316) OR PreCalculus (MATH 2412)	Calculus II (MATH 2414)	Calculus II (MATH 2414)	3-4
Physical Sciences	Physics I (Algebra-based) (PHYS 1401)	Physics I (Algebra-based) (PHYS 1401)	Physics I (Calculus-based) (PHYS 2425)	4
	Physics II (Algebra-based) (PHYS 1402)	Physics II (Algebra-based) (PHYS 1402)	Physics II (Calculus-based) (PHYS 2426)	4
Physical Sciences	Chemistry I (CHEM 1411)			4
Engineering	Engineering Design Graphics (ENGR 1304)			3
Technology	Engineering Materials I (ENGT 2307)			3
Technology	Introduction to Manufacturing Processes (ENGT 2310)			3
English	¹ Technical and Business Writing (ENGL 2311)			3
				Total 30-32 SCH

*Sub-Track 1 allows transfer to the following institutions: UT-T, WTAMU, SRSU, TSU, and SHSU.

**Sub-Track 2 allows transfer to the following institutions: UH, MSU, SWTSU, and UT-B and all institutions listed in sub-track 1.

***Sub-Track 3 allows transfer to all of the programs in the state including those in sub-tracks 1 and 2 and also to TAMU, TAMUC, TASU and UNT.

¹ All institutions accept ENGL 2311. Institutions are encouraged to accept the Workforce Education Course Manual (WECM) equivalent course ETWR 2301 but are not required to do so.

Mechanical Engineering Technology

Content Area	*Sub-Track 1	**Sub-Track 2	Semester Credit Hours (SCH)
Mathematics	Calculus I (MATH 2413)		4
	Calculus II (MATH 2414)		4
Physical Sciences	Physics I (Algebra-based) (PHYS 1401)	Physics I (Calculus-based) (PHYS 2425)	4
	Physics II (Algebra-based) (PHYS 1402)	Physics II (Calculus-based) (PHYS 2426)	4
Physical Sciences	Chemistry I (CHEM 1411)		4
Engineering	Engineering Design Graphics (ENGR 1304)		3
Technology	Engineering Materials I (ENGT 2307)		3
Technology	Introduction to Manufacturing Processes (ENGT 2310)		3
English	¹ Technical and Business Writing (ENGL 2311)		3
			Total 32 SCH

*Sub-Track 1 allows transfer to the following institutions: UH, UH-D, TTU, and UT-B.

**Sub-Track 2 allows transfer to all of the programs in the state including those in sub-track 1 and also to TAMU, TAMU-CC, and UNT.

¹ All institutions accept ENGL 2311. Institutions are encouraged to accept the Workforce Education Course Manual (WECM) equivalent course ETWR 2301 but are not required to do so.

Field of Study Curriculum for Mexican-American Studies

The Mexican-American Studies Field of Study 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 baccalaureate degree with a major in Mexican-American Studies. Based on that information, the Committee and the Board staff recommends that the following set of courses, totaling 18 semester credit hours (SCH) of fully transferable and applicable lower-division courses, be considered as a Field of Study Curriculum for Mexican-American Studies.

Courses

One course is to be selected from each of the six categories below:

Category	SCH	Course Number	Course Title
Introduction	3	HUMA 1305	Introduction to Mexican-American Studies
History	3	HIST 2327	Mexican-American History I
		HIST 2328	Mexican-American History II
Government	3	GOVT 2311	Mexican-American Politics
English/Literature	3	ENGL 2351	Mexican-American Literature
Spanish	3	SPAN 2312	Intermediate Spanish II
		SPAN 2315	Spanish for Native Speakers II
Fine Arts	3	HUMA 1311	Mexican-American Fine Arts Appreciation

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.

Course	Number Of Semesters	Semester Credit Hours
Ensemble	4	4
Applied Study	4	8
Theory/Aural Skills	4	12-16
Music Literature	1	3

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 *ACGM*.

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.

Field of Study Curriculum for Nursing

The following annotated set of courses, totaling 28 semester credit hours (SCH) of fully transferable and applicable lower-division academic courses, and an additional set of Workforce Education (WECM) nursing courses, make up the Field of Study Curriculum for Nursing:

Academic Courses

Content Area	Number and type of courses	Texas Common Course Numbering System Equivalent ^s
Anatomy & Physiology	2 courses: A&P I with lab and A&P II with lab	BIOL 2401 and BIOL 2402 only ⁶
Microbiology	1 course: Microbiology with lab	BIOL 2420 OR BIOL 2421
Chemistry	1 course: chemistry with lab	Any 4 SCH ACGM course including lab
Nutrition	1 course: Nutrition & Diet Therapy I	HECO 1322 OR BIOL 1322
Psychology	2 courses: General Psychology and Lifespan Growth & Development	PSYC 2301 AND PSYC 2314
Mathematics	1 course: Elementary Statistical Methods	MATH 1342

¹ Prerequisite courses to BIOL 2401/2402 or the equivalent are not required for the Field of Study Curriculum for Nursing

Nursing Content Courses

NOTE: Lower-division nursing content is offered at community colleges through one of two general types of programs: Blocked or Integrated. Because of the distribution of content, it is extremely difficult to align curricula from one type of program to another. Students who desire to transfer from a program utilizing one type of program into the other type of program should be prepared to make up some content through a “bridge” course or through the repetition of some content within courses. It is recommended that a student make every effort to avoid transferring from one type of program to the other before completing the associate degree in nursing in order not to lose credit.

Lower-division nursing content courses being transferred from a blocked-curriculum program to another blocked-curriculum program should be applied to the degree on a **course-for-course** substitution basis, in which the course transferred is applied IN LIEU OF the course at the receiving institution, even if the number of semester credit hours awarded upon the completion of the course varies between the sending and receiving institutions. The same procedure should be used when a student transfers from an integrated-curriculum program into another integrated-curriculum program.

For Nursing Content Courses, CHOOSE EITHER Blocked Curriculum OR Integrated Curriculum BUT NOT BOTH:

BLOCKED CURRICULUM

Content Area	WECM Course Rubric & Number	SCH Range (Required Clinical Co-requisite)
Fundamentals (including Basic Skills)	RNSG 1413/RNSG 1513 (basic skills incorporated) OR RNSG 1413/1513 PLUS RNSG 1105/1205 OR RNSG 1209/1309 PLUS RNSG 1105/1205 OR Any equivalent theory/lab combination	2 to 6 SCH
Mental Health	RNSG 2113/2213	1 OR 2 SCH
Obstetrics/Pediatrics	RNSG 1412/1512 OR RNSG 1251 PLUS RNSG 2201 OR RNSG 2208/2308 PLUS RNSG 2201	4 OR 5 SCH
Medical/Surgical Nursing	RNSG 1331/1431 or 1231 PLUS 1232 PLUS RNSG 1347/1447 or 1247 PLUS 1248 OR RNSG 1341/1441 PLUS RNSG 1343/1443 OR EQUIVALENT with OR without RNSG 1144/ RNSG 1244	2 to 6 SCH

OR

INTEGRATED CURRICULUM

Content Area	WECM Course Rubric & Number	SCH Range (Required Clinical Co-requisite)
Introduction to Professional Nursing for Integrated Programs	RNSG 1423/RNSG 1523 (basic skills incorporated) OR RNSG 1423/1523 PLUS RNSG 1119/1219 OR RNSG 1222 PLUS RNSG 1223 PLUS RNSG 1119/1219	2 to 6 SCH
Integrated Care of the Client with Common Health Care Needs	RNSG 2404/2504 (basic skills incorporated) OR RNSG 2404/2504 PLUS RNSG 11XX/12XX OR RNSG 2203 PLUS RNSG 2204 PLUS RNSG 11XX/12XX	2 to 6 SCH

The following notes address special circumstances and are also part of the field of study curriculum:

- (1) Wherever possible, courses applied to fulfill field of study curriculum requirements should also be used to satisfy requirements in the general academic core curriculum. Generally, the math course, the biology or chemistry course(s), and one psychology course should be able to fulfill requirements in both curricula.
- (2) Courses selected for inclusion in the field of study curriculum are those that are common to most baccalaureate nursing programs.
- (3) Completion of the field of study curriculum shall not prevent a receiving institution from requiring additional courses/content for specific degree programs.
- (4) Students should not be required to repeat courses that they have completed successfully.
- (5) The academic courses and the unmodified WECM courses that are included in the Field of Study Curriculum for Nursing should transfer immediately upon approval of the field of study curriculum by the Coordinating Board. New WECM courses and courses that need modification should be accepted in transfer as soon as those modifications have been approved by the WECM Maintenance committee and added to the WECM inventory. Implementation of the complete field of study curriculum should not take more than one calendar year following addition of the new and modified courses to the WECM inventory. New or modified WECM courses will be initiated with entering students. Programs may allow sophomore students to continue with the previous curricula to prevent changing courses in the middle of their programs. Full implementation of new and modified WECM courses must be complete within two years after their addition to the WECM inventory.