

Texas Higher Education Coordinating Board



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* Note: These two educator-preparation FOSCs are outdated and no longer valid. If you are interested in educator preparation transfer programs, go to the [Associate of Arts in Teaching webpage](#).

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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 4-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.

The following annotated set of courses (totaling between 21 and 24 semester credit hours of fully transferable and applicable lower-division courses) has been adopted 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 ²	BCIS 1305 or 1405 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

The following **notes** (next page) are also part of the field of study curriculum. They address special circumstances.

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

² 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.

First, wherever possible, courses applied to fulfill 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 ACMG 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**			
Competency Area 1	Historical/Theoretical/Analytical 6-9 SCH selected from:	Advertising/Public Relations	Journalism/Mass Communication	Radio & Television Broadcasting/Broadcast Journalism	General Communication/Communication Studies/Speech Communication/ Speech & Rhetorical Studies/ Organizational Communication
		<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)
Competency Area 2	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) TV Production I (COMM 1336) TV Production II (COMM 1337) 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 Curricula for Communication – Revisions to ACGM

In order to facilitate the implementation of the Field of Study Curricula for Communication, this Committee recommends that the Academic Course Guide Manual Advisory Committee update the communication curriculum titles and course descriptions in the *Lower-Division Academic Course Guide Manual* (ACGM) and consider new courses to be added to the ACGM. Specifically, new lower-division, introductory courses and revisions to existing courses should be considered as follows:

Additions to ACGM

SPCH 2316 Interviewing (cross-listed as COMM 2316)

Application of communication concepts in selected interview settings with emphasis on dyadic communication, questioning techniques, interview structure, and persuasion. (3-3-48)*

SPCH 2301 Introduction to Technology and Human Communication (cross-listed as COMM 2301)

A survey of emerging interactive communication technologies and how they influence human communication, including interpersonal, group decision-making, and public and private communication contexts. (3-3-48)

COMM 2316 Interviewing (cross-listed as SPCH 2316)

Application of communication concepts in selected interview settings with emphasis on dyadic communication, questioning techniques, interview structure, and persuasion. (3-3-48)

COMM 2304 Introduction to Cinematic Production

Basic single-camera production concepts and techniques. (3-3-48)

COMM 2330 Introduction to Public Relations

Exploration of the history and development of public relations. Presentation of the theory behind and process of public relations, including the planning, implementation, and evaluation of PR campaigns. (3-3-48)

COMM 2301 Introduction to Technology and Human Communication (cross-listed as SPCH 2301)

A survey of emerging interactive communication technologies and how they influence human communication, including interpersonal, group decision-making, and public and private communication contexts. (3-3-48)

COMM 2300 Media Literacy

Criticism and analysis of the function, role, and responsibility of the mass media in modern society from the consumer perspective. Includes the ethical problems and issues facing each media format, with the effect of political, economic, and cultural factors on the operation of the media. (3-3-48)

COMM 2302 Principles of Journalism

Exploration of ethical and legal boundaries as well as issues and problems facing today's journalist. (3-3-48)

* "3-3-48" indicates three maximum SCH per student, three maximum SCH per course, and 48 maximum contact hours per course.

Revisions to ACGM

ARTS 2351 Advertising Art I

ARTS 2352 Advertising Art II

Communication of ideas through processes and techniques of graphic design and illustration.

- **Recommended Action:** Courses were deleted from the ACGM. Reinstate courses as COMM 23XX and COMM 23XX.

COMM 2327 Principles of Advertising

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

- **Recommended Action:** Revise course title to “Introduction to Advertising.”

DRAM 2366 Development of the Motion Picture I

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.

- **Recommended Action:** Cross-list course as COMM 23XX – “Introduction to Film.”

SPCH 1321 Business & Professional Speaking

Theories and practice of speech communication as applied to business and professional situations.

- **Recommended Action 1:** Revise course title to “Business and Professional Communication.”
- **Recommended Action 2:** Revise course description to “Application and practice of communication as it applies to business and professional situations.”

COMPUTER SCIENCE FIELD OF STUDY CURRICULUM

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.

COURSE DESCRIPTIONS

COSC 1336/1436 PROGRAMMING FUNDAMENTALS I

Introduces the fundamental concepts of structured programming. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy.

COSC 1337/1437 PROGRAMMING FUNDAMENTALS II

Review of control structures and data types with emphasis on structured data types. Applies the object-oriented programming paradigm, focusing on the definition and use of classes along with the fundamentals of object-oriented design. Includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering. {Prerequisite: COSC 1336/1436}

COSC 2336/2436 PROGRAMMING FUNDAMENTALS III

Further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include recursion, fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), and algorithmic analysis. {Prerequisite: COSC 1337/1437}

***COSC 2325/2425 COMPUTER ORGANIZATION AND MACHINE LANGUAGE**

Basic computer organization; machine cycle, digital representation of data and instructions; assembly language programming, assembler, loader, macros, subroutines, and program linkages. {Prerequisite: COSC 1336/1436}

**Course description has been updated.*

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 xxxx MATH xxxx		
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 majors OR Circuits I for majors with Lab	ENGR xxxx ENGR xxxx	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		
		Differential Equations	Linear Algebra	Differential Equations and Linear Algebra (combined)
Sending Institution	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

		Course	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

		Course	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		✓	

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.

Proposed Field of Study Curricula for Engineering Technology

Tracks leading to the Bachelor of Science degree with a major in:

- Civil Engineering Technology
- Computer Engineering Technology
- Construction Engineering Technology
- Electrical/Electronic 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 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: (1) Calculus and Algebra-based Physics. Therefore, this field of study offers one 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 offers three sub-tracks to accommodate all institutional requirements.

Electrical/Electronic Engineering Technology Track

There are nine universities in Texas that offer Electrical/Electronic Engineering Technology degrees; Math and Physics requirements vary across these nine 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 offers three sub-tracks to accommodate all institutional requirements.

Manufacturing Engineering Technology Track

There are fourteen universities in the state of Texas that offer Manufacturing Engineering Technology degrees. The Math and Physics requirements vary across these fourteen 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 offers three sub-tracks to accommodate all institutional requirements.

Mechanical Engineering Technology Track

There are eight 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 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 offers three 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
TAMU-K	Texas A&M University-Kingsville
TASU	Tarleton State University
TSU	Texas Southern University
TTU	Texas Tech University
UH	University of Houston
UH-CL	University of Houston-Clear Lake
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) The tracks for Electrical/Electronic Engineering Technology and Computer Engineering Technology are the same.
- 3) The tracks for Manufacturing Engineering Technology and Mechanical Engineering Technology are the same.
- 4) The tracks for Civil Engineering Technology and Construction Engineering Technology are different from all the others.

Civil Engineering Technology

Content Area	*Sub-Track 1	**Sub-Track 2	Semester Credit Hours (SCH)
Mathematics	Calculus I (MATH 2413)	Calculus I (MATH 2413)	4
	Calculus II (MATH 2414)	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 Technology	Surveying (ENGR 1407)		4
Technology	¹ AC/DC Circuits (CETT 1409)		4
Technology	² Materials and Methods (CNBT 2304)		3
English	³ Technical and Business Writing (ENGL 2311 or ETWR 2301)		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.

¹Recommend that universities accept CETT 1409 from the Workforce Education Course Manual (WECM) and give credit for the equivalent institutional requirement.

²Recommend that universities accept CNBT 2304 from the Workforce Education Course Manual (WECM) and give credit for the equivalent institutional requirement.

³Recommend that universities accept ETWR 2301 from the Workforce Education Course Manual (WECM) as a substitute for ENGL 2311 [found in the Academic Course Guide Manual (ACGM)].

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	¹ Circuits I	4
Technology	¹ Circuits II	4
Technology	¹ Digital Fundamentals	4
English	² Technical and Business Writing (ENGL 2311 or ETWR 2301)	3
		35 Total SCH

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

¹This is a new course; the actual course title and course number will be determined by the Lower-Division Academic Course Guide Manual (ACGM) Advisory Committee.

²Recommend that universities accept ETWR 2301 from the Workforce Education Course Manual (WECM) as a substitute for ENGL 2311 (found in the ACGM).

Construction Engineering Technology

Content Area	*Sub-Track 1	**Sub-Track 2	***Sub-Track 3	Semester Credit Hours (SCH)
Mathematics	College Algebra (MATH 1314) Plane Trigonometry (MATH 1316) OR PreCalculus) (MATH 2412)	Calculus I (MATH 2413) Calculus II (MATH 2414)	Calculus I (MATH 2413) Calculus II (MATH 2414)	3-4 3-4
Physical Sciences	Physics I (Algebra-based) (PHYS 1401) Physics II (Algebra-based) (PHYS 1402)	Physics I (Algebra-based) (PHYS 1401) Physics II (Algebra-based) (PHYS 1402)	Physics I (Calculus-based) (PHYS 2425) Physics II (Calculus-based) (PHYS 2426)	4 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 (CETT 1409)		4
Technology		² Materials and Methods (CNBT 2304)		3
English		³ Technical and Business Writing (ENGL 2311 or ETWR 2301)		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-track 1 and 2.

¹Recommend that universities accept CETT 1409 from the Workforce Education Course Manual (WECKM) and give credit for the equivalent institutional requirement.

²Recommend that universities accept CNBT 2304 from the Workforce Education Course Manual (WECKM) and give credit for the equivalent institutional requirement.

³Recommend that universities accept ETWR 2301 from the Workforce Education Course Manual (WECKM) as a substitute for ENGL 2311 (found in the ACGM).

Electrical/Electronic Engineering Technology

Content Area	*Sub-Track 1	**Sub-Track 2	***Sub-Track 3	Semester Credit Hours (SCH)
Mathematics	College Algebra (MATH 1314) Plane Trigonometry (MATH 1316) OR PreCalculus) (MATH 2412)	Calculus I (MATH 2413) Calculus II (MATH 2414)	Calculus I (MATH 2413) Calculus II (MATH 2414)	3-4 3 -4
Physical Sciences	Physics I (Algebra-based) (PHYS 1401) Physics II (Algebra-based) (PHYS 1402)	Physics I (Algebra-based) (PHYS 1401) Physics II (Algebra-based) (PHYS 1402)	Physics I (Calculus-based) (PHYS 2425) Physics II (Calculus-based) (PHYS 2426)	4 4
Physical Sciences		Chemistry I (CHEM 1411)		4
Technology		¹ Circuits I		4
Technology		¹ Circuits II		4
Technology		¹ Digital Fundamentals		4
English		² Technical and Business Writing (ENGL 2311 or ETWR 2301)		3
				33-35 Total SCH

*Sub-Track 1 allows transfer to the following institutions: SHSU and UT-B.

**Sub-Track 2 allows transfer to the following institutions: UH, TTU, PVAMU, TSU and all institutions listed in sub-track 1.

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

¹This is a new course; the actual course title and course number will be determined by the Lower-Division Academic Course Guide Manual (ACGM) Advisory Committee.

²Recommend that universities accept ETWR 2301 from the Workforce Education Course Manual (WECKM) as a substitute for ENGL 2311 (found in the ACGM).

Manufacturing Engineering Technology

Content Area	*Sub-Track 1	**Sub-Track 2	***Sub-Track 3	Semester Credit Hours (SCH)
Mathematics	College Algebra (MATH 1314) Plane Trigonometry (MATH 1316) OR PreCalculus) (MATH 2412)	Calculus I (MATH 2413) Calculus II (MATH 2414)	Calculus I (MATH 2413) Calculus II (MATH 2414)	3-4 3 -4
Physical Sciences	Physics I (Algebra-based) (PHYS 1401) Physics II (Algebra-based) (PHYS 1402)	Physics I (Algebra-based) (PHYS 1401) Physics II (Algebra-based) (PHYS 1402)	Physics I (Calculus-based) (PHYS 2425) Physics II (Calculus-based) (PHYS 2426)	4 4
Physical Sciences		Chemistry I (CHEM 1411)		4
Engineering		Engineering Design Graphics (ENGR 1304)		3
Technology		¹ Engineering Materials		3
Technology		¹ Introduction to Manufacturing Processes		3
English		² Technical and Business Writing (ENGL 2311 or ETWR 2301)		3
				Total 30-32 SCH

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

**Sub-Track 2 allows transfer to the following institutions: UH, TASU, MSU, SWTSU, and PVAMU 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-track 1 and 2 and also to TAMU, TAMUC, and UNT.

¹This is a new course; the actual course title and course number will be determined by the Lower-Division Academic Course Guide Manual (ACGM) Advisory Committee.

²Recommend that universities accept ETWR 2301 from the Workforce Education Course Manual (WECM) as a substitute for ENGL 2311 (found in the ACGM).

Mechanical Engineering Technology

Content Area	*Sub-Track 1	**Sub-Track 2	***Sub-Track 3	Semester Credit Hours (SCH)
Mathematics	College Algebra (MATH 1314) Plane Trigonometry (MATH 1316) OR PreCalculus) (MATH 2412)	Calculus I (MATH 2413) Calculus II (MATH 2414)	Calculus I (MATH 2413) Calculus II (MATH 2414)	3-4 3 -4
Physical Sciences	Physics I (Algebra-based) (PHYS 1401) Physics II (Algebra-based) (PHYS 1402)	Physics I (Algebra-based) (PHYS 1401) Physics II (Algebra-based) (PHYS 1402)	Physics I (Calculus-based) (PHYS 2425) Physics II (Calculus-based) (PHYS 2426)	4 4
Physical Sciences	Chemistry I (CHEM 1411)			4
Engineering	Engineering Design Graphics (ENGR 1304)			3
Technology	¹Engineering Materials			3
Technology	¹Introduction to Manufacturing Processes			3
English	²Technical and Business Writing (ENGL 2311 or ETWR 2301)			3
				Total 30-32 SCH

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

**Sub-Track 2 allows transfer to the following 5 institutions: UH, UH-D, TTU, PVAMU 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-track 1 and 2 and also to TAMU, TAMU-CC, and UNT.

¹This is a new course; the actual course title and course number will be determined by the Lower-Division Academic Course Guide Manual (ACGM) Advisory Committee.

²Recommend that universities accept ETWR 2301 from the Workforce Education Course Manual (WECM) as a substitute for ENGL 2311 (found in the ACGM).

New Courses and Course Descriptions**COMPUTER ENGINEERING TECHNOLOGY****Circuits I (4 SCH)**

Fundamental concepts of electrical science including potential, current and power in DC circuits. Fundamental laws and relationships applied to the analysis of circuits and networks: capacitance, inductance and magnetism; and single-frequency concepts; use of calculators and computer software in design and analysis of circuits. Standard instrumentation used in test and measurement of DC circuits and systems will be introduced. (Prerequisite: College Algebra)

Circuits II (4 SCH)

Complex AC circuit including transient analysis. Network theorems are applied to the solution of AC circuits. Resonance, filters, AC power and three-phase circuits are covered in detail. Continued application of calculators and computer design and analysis of circuits. Standard instrumentation used in testing AC circuits and systems and measurement of AC circuits and systems will be introduced. (Prerequisites: Circuits I and [Pre-Calculus or Trigonometry])

Digital Fundamentals (4 SCH)

Analysis, design and simulation of combinational and sequential systems using: classical Boolean algebra techniques, laboratory hardware experiments and computer simulation. Introduction to programmable logic devices (PLDs) and application-specific integrated circuits using software tools to the design and analysis of digital logic circuits and systems. Standard instrumentation used in testing digital circuits and systems will be introduced. (Prerequisite: College Algebra)

ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY**Circuits I (4 SCH)**

Fundamental concepts of electrical science including potential, current and power in DC circuits. Fundamental laws and relationships applied to the analysis of circuits and networks: capacitance, inductance and magnetism; and single-frequency concepts; use of calculators and computer software in design and analysis of circuits. Standard instrumentation used in test and measurement of DC circuits and systems will be introduced. (Prerequisite: College Algebra)

Circuits II (4 SCH)

Complex AC circuit including transient analysis. Network theorems are applied to the solution of AC circuits. Resonance, filters, AC power and three-phase circuits are covered in detail. Continued application of calculators and computer design and analysis of circuits. Standard instrumentation used in testing AC circuits and systems and measurement of AC circuits and systems will be introduced. (Prerequisites: Circuits I and [Pre-Calculus or Trigonometry])

Digital Fundamentals (4 SCH)

Analysis, design and simulation of combinational and sequential systems using: classical Boolean algebra techniques, laboratory hardware experiments and computer simulation. Introduction to programmable logic devices (PLDs) and application-specific integrated circuits using software tools to the design and analysis of digital logic circuits

and systems. Standard instrumentation used in testing digital circuits and systems will be introduced. (Prerequisite: College Algebra)

MANUFACTURING ENGINEERING TECHNOLOGY

Engineering Materials I (3 SCH)

Instruction in the making and forming of steel and the classification of steel, cast iron, and aluminum. Topics include mechanical and physical properties, non-destructive testing principles of alloying, selection of metals, iron carbon diagrams, principles of hardening and tempering steel, and the metallurgical aspects of machining. Topics will also include an overview of properties and uses of polymers and ceramics. {Lab Required.}

Introduction to Manufacturing Processes (3 SCH)

Exploration of a variety of methods used in manufacturing. Theory and application of processes including but not limited to metal forming, welding, machining, heat treating, plating, assembly procedures, process controls considerations, casting and injection molding. {Lab Required.}

MECHANICAL ENGINEERING TECHNOLOGY

Engineering Materials I (3 SCH)

Instruction in the making and forming of steel and the classification of steel, cast iron, and aluminum. Topics include mechanical and physical properties, non-destructive testing principles of alloying, selection of metals, iron carbon diagrams, principles of hardening and tempering steel, and the metallurgical aspects of machining. Topics will also include an overview of properties and uses of polymers and ceramics. {Lab Required.}

Introduction to Manufacturing Processes (3 SCH)

Exploration of a variety of methods used in manufacturing. Theory and application of processes including but not limited to metal forming, welding, machining, heat treating, plating, assembly procedures, process controls considerations, casting and injection molding. {Lab Required.}

Course Descriptions**¹CETT 1409****AC/DC Circuits (4 SCH)**

Fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchoff's law, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques.

CHEM 1411**General Chemistry I (4 SCH)**

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

¹CNBT 2304**Materials and Methods (4 SCH)**

A continuation of the study of the nature, origin and properties of building materials, methods and equipment for their integrated use in completing construction projects. A study of selecting and specifying materials with consideration for economy, quality and performance in the construction of modern buildings.

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

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

ENGL 2311**Technical & Business Writing I (3 SCH)**

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

¹ETWR 2301**Technical Writing (3 SCH)**

Study of the principles, techniques, and skills needed for college level scientific, technical, and business writing.

MATH 1316**Plane Trigonometry (3 SCH)**

Trigonometric functions, identities, equations, and applications.

MATH 1314**College Algebra (3 SCH)**

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

MATH 2413**Calculus I (4 SCH)**

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

PHYS1401

College Physics I (4 SCH)

Algebra-level physics sequence, with laboratories, that include study of mechanics, heat, waves, electricity and magnetism, and modern physics. {Lecture + Lab}

PHYS 1402

College Physics II (4 SCH)

Algebra-level physics sequence, with laboratories, that include study of mechanics, heat, waves, electricity and magnetism, and modern physics. {Lecture + Lab}

Note:

¹Existing Workforce Education Course Manual (WECM) Course.

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 or HIST 2328	Mexican-American History I or Mexican-American History II
Government	3	GOVT 2311	Mexican-American Politics
English/Literature	3	ENGL 2351	Mexican-American Literature
Spanish	3		Any Spanish course
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 (31 without the keyboard course described below) 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 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.

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 Equivalents
Anatomy & Physiology	2 courses: A&P I with lab and A&P II with lab	BIOL 2401 and BIOL 2402 only ¹
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

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 Corequisite)
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
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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.

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