

skills are included at this level. Three semester hours of credit. May not be used to satisfy degree requirements. May be repeated.

- LSKL 0302 Reading III (32.0108.52 12) 3.3.0**
Designed to help students develop advanced reading skills and techniques prerequisite to college success. Three semester hours of credit. May not be used to satisfy degree requirements. May be repeated.
- LSKL 0303 Study Skills I (32.0101.52 12) 3.3.0**
Designed to help students develop the most basic study skills and techniques prerequisite to college success. Three semester hours of credit. May not be used to satisfy degree requirements. May be repeated.
- LSKL 0304 Study Skills II (32.0101.52 12) 3.3.0**
Designed to help students develop study strategies and to improve study habits prerequisite to college success. Three semester hours of credit. May not be used to satisfy degree requirements. May be repeated.
- LSKL 0306 Skill Development in Math 32.0104.51 19) 3.3.0**
Designed to help students acquire the basic math skills prerequisite to a successful college experience. Includes an intensive testing program designed to identify areas of specific need and to facilitate individualized instruction. May not be used to satisfy degree requirements. May be repeated.

Mathematics

Suggested Course of Study for University Transfer Students (66-69 Credit Hours)

Freshman Year	Sophomore Year
PSYC 1100 or EDUC 1100	Elective (3 Credit Hours)
ENGL 1301	GOVT 2305
ENGL 1302	GOVT 2306
HIST 1301	Humanities (3 Credit Hours)
HIST 1302	MATH 2320
Lab Science (8 Credit Hours)	MATH 2415
(MATH 1314)*	PHYS 2425
(MATH 1316)*	Visual/Fine Arts (3 Credit Hours)
MATH 2413	Social/Behavioral Science
MATH 2414	(3 Credit Hours)
PHED 1134	Computer (3-4 Credit Hours)
PHED - Activity (1 Credit Hour)	
SPCH 1315 or 1321	

*Students who have not had two years of high school algebra or trigonometry must take MATH 1314 and 1316. **Note:** BIOL 1406/1407 or CHEM 1411/1412 is recommended for the core curriculum requirement.

- MATH 0103 Elementary Algebra Laboratory (32.0104.51 19)** 1.0.1
Group laboratory instruction designed to develop mathematical skills necessary for academic success. May not be used to satisfy degree requirements. Required for MATH 0300. May be repeated.
- MATH 0106 Intermediate Algebra Laboratory (32.0104.51 19)** 1.0.1
Group laboratory instruction designed to develop mathematical skills necessary for academic success. May not be used to satisfy degree requirements. Required for MATH 0301. May be repeated.
- MATH 0300 Elementary Algebra (32.0104.51 19)** 3.3.0
Topics covered normally include real numbers, linear equations and inequalities, application of linear equations, ratio and proportion, multiplication and division of polynomials, and factoring. May not be used to satisfy degree requirements. MUST take MATH 0103 as required lab. (Students taking this course on the Texas A&M University-Commerce campus are excluded from this requirement.) Prerequisite: LSKL 0306 or satisfactory score on placement test.
- MATH 0301 Intermediate Algebra (32.0104.52 19)** 3.3.0
Topics covered normally include factoring, exponents, roots, radicals, complex numbers, linear equations and their graphs, introduction into functions, rational expressions, and fractional equations. May not be used to satisfy degree requirements. Prerequisite MATH 0300 or satisfactory score on placement test. MUST take MATH 0106 as required lab.
- MATH 1314 College Algebra (27.0101.54 19)** 3.3.0
Topics covered normally include quadratics; polynomial, rational, logarithmic, and exponential functions; systems of equations, progressions, sequences and series, and matrices and determinants. Prerequisite: MATH 0301 or two years high school algebra and appropriate placement test.
- MATH 1316 Trigonometry (27.0101.53 19)** 3.3.0
Topics covered normally include degree and radian measure, the use of scientific calculator, the trigonometric functions, solution of right triangles and oblique triangles, vectors, graphs of trigonometric and inverse trigonometric functions, identities, solutions of trigonometric equations, and complex numbers. Prerequisite: Two years of high school algebra, MATH 1314 or concurrent enrollment in MATH 1314. Core Curriculum satisfied for Mathematics.
- MATH 1324 Mathematics for Business and Economics Analysis I (27.0301.52 19)** 3.3.0
A study of topics from algebra, linear programming, probability, and statistics with business applications. Topics covered will normally include: linear equations, graphs of linear equations, slope, matrices, systems of equations, the simplex method, quadratic equations and functions, exponential and logarithmic functions, sequences and mathematics of finance, and an

introduction to probability and statistics. Core Curriculum satisfied for Mathematics.

- MATH 1325 Mathematics for Business and Economical Analysis II (27.0301.52 19) 3.3.0**
 A study of topics from calculus with business applications. Topics covered will normally include: limits and continuity, derivatives, maximizing and minimizing non-linear functions, higher order derivatives, implicit differentiation, derivatives of exponential and logarithmic functions, integration, and introduction to multivariable calculus. Prerequisite: MATH 1314 or 1324. Core Curriculum satisfied for Mathematics.
- MATH 1342 Statistics (27.0501.51 19) 3.3.0**
 Presentation and interpretation of data through the collection, tabulation, and analysis of data, probability, discrete and continuous distributions, sampling, testing of hypothesis, correlation and linear regression, analysis of variance, and the use of statistical software. Prerequisite: MATH 0301, finish remediation or appropriate placement test.
- MATH 1348 Analytic Geometry (27.0101.55 19) 3.3.0**
 Lines, circles, and other conic sections; transformation of coordinates; polar coordinates; parametric equations are covered. Prerequisite: MATH 1314 and 1316; or two years of high school algebra and high school trigonometry.
- MATH 1350 Fundamentals of Mathematics I (27.0101.56 19) 3.3.0**
 Concepts of sets, functions, numeration systems, number theory, and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4 though 8) teacher certification. Prerequisite: MATH 1314 or the equivalent.
- MATH 1351 Fundamentals of Mathematics II (27.0101.56 19) 3.3.0**
 Concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4 though 8) teacher certification. Prerequisite: MATH 1314.
- MATH 2320 Differential Equations (27.0301.51 19) 3.3.0**
 Equations of the first order, applications of first order equations; second order equations, series solutions; higher order equations; Laplace Transforms; systems of differential equations. Prerequisite: MATH 2414.
- MATH 2413 Analytic Geometry and Calculus I (27.0101.59 19) 4.3.3**
 An integrated study of analytic geometry and calculus. Topics will include: the Cartesian plane, functions, limits, differentiation and applications; integration, inverse functions, transcendental functions. Prerequisite: MATH 1314 and 1316; or two years of high school algebra and high school trigonometry.

MATH 2414 Analytic Geometry and Calculus II (27.0101.59 19) 4.3.3
 A continuation of the integrated study of analytic geometry and calculus. Topics will normally include: applications of integration, integration techniques, sequences and series, conics, parametric equations and polar coordinates. Prerequisite: MATH 2413.

MATH 2415 Analytic Geometry and Calculus III (27.0101.59 19) 4.3.3
 A continuation of the integrated study of analytic geometry and calculus. Topics will normally include: vectors, vector-valued functions, functions of several variables, multiple integration, and vector analysis. Prerequisite: MATH 2414.

Medical Records Coding

(Health Information Coding)

The Medical Records Coding Program is designed to prepare individuals to function effectively in the information management of the health care industry under the supervision of a medical records supervisor. As part of the information management team, the medical records coding associate will provide evidence for appropriate coding of the patient record to assist in reimbursement via private or governmental means.

The Medical Records Coding Program is approved by the American Health Information Management Association (AHIMA). (www.ahima.org)

Graduates are eligible to work in the information management areas in acute care and/or healthcare provider offices, and will be eligible to take the Certificate Examination for Coding Associate to qualify as a Certified Coding Associate (CCA).

The program begins in the Spring semester and is concluded at the end of the Spring semester of the following year.

Admissions Procedures for Medical Records Coding Program

The Medical Records Coding Program's admission application is available at the beginning of January for those who wish to apply. Completed and signed applications are accepted year-round; the core courses begin in the Summer II semester.

Along with the completed and signed application, the following must also be submitted:

- » Official high school transcript or G.E.D.
- » Official college transcripts from all colleges attended.
- » Required references at the time of applications.

To receive a Medical Records Coding application by mail or to pick one up in person, contact the Health Occupations staff at 903.782.0734.

Students who have not been enrolled in the previous five years may be requested to resubmit all transcripts.