2016-18, 2018-20, 2020-22

Undergraduate Catalog General Curriculum



FLAG Course C Course Name

Pre-requisite - credit for Co-requisite - credit OR registration for

- Core Curriculum

 Supporting Course T - Technical Area

Course Flags
In the process of fulfilling the core curriculum and other degree requirements, undergrads complete courses with content in the following areas:

- Wr Writing (2 courses)
 QR Quantitative Reasoning (1 course)
 GC Global Cultures (1 course)
- CD Cultural Diversity in the US (1 course)
- E Ethics (1 course)

 II Independent Inquiry (1 course) *not all courses will carry this flag; check the course schedule

PRE-REQ CO-REQ QR QR

ALEKS 85+ M 408C/D

CH 301

CD*/GC*

UGS 302/3

RHE 306

1

Fall

Spring

M 408D Sequences, Serie Multivariable

M 408C

QR

M 408C

Differential and Integral Calculus

70+ on UT Math Assessment

PHY 303K

M 408C/K M 408D/L PHY 105M

QR **PHY 105M**

ME302

Intro to Engr. Design &

PHY 303K

Lab for PHY 303K

E, Wr **ME 333T**

Engineering Communication

RHE 306

CD*/GC*

Soc. Sci.

CD*/GC* **VAPA**

GOV 310L

Fall

M 427J M 408D/L

PHY 303L M 408C/L (M 408D/M) PHY 303K PHY 105N

PHY 105N PHY 105M PHY 303L

EM 306

M 408D/L PHY 303K PHY 105M **ME316T**

Thermodynamics

CH 301 M 408D/M PHY 303K

CD* US History C

Approved US

2

M 427L Spring M 408D/L

E M 319 E M 306

PHY 103M

M 408D/M

PHY 303K

ME318M

Intro to Comp & Engr.

M 427J

ME314D Dynamics

E M 306 M 408D/M

Fall

M E 334 Materials Engineering CH 301 PHY 3031 PHY 105N E M 319

M E 134L

ME134L

Materials

M E 334

Fluid Mechanics E M 306 | M E 130L M 427J M E 316T

M E 330

ME 130L

Expt. Fluid Mechanics

M E 330

QR

M E 335 Engineering Statistics

M 408D/M

US History C

Spring

3

M E 340 Mechatronics M 427J M E 140L M E 318M PHY 303L

PHY 103N

ME140L

Mechatronics

ME144L

Dynamic Systems

M E 340

M E 344

M E 338 Machine Elements

E M 319 M E 334 M E 134L M E 339

Heat Transfer M E 318M | M E 139L M E 330

M E 139L

Expt. Heat Transfer M E 339

Т **CGE** Career Gateway Elective Varies with each track

Fall

M E 344 Dynamic Systems and Controls M 427J M E 144L

M E 318M M E 314D M E 340 M E 140L Wr

ME366J ME Design

ALL ARE PRE-REQS: M E 302 M E 338 M E 333T M E 339 M F 330 M F 139I M E 130L M E 340 M E 335 M E 140L QR

M E 130L

M E 353 Engineering **Finance**

M E 335

CGE Career Gateway

Varies with each track

GOV 312L/PC

4

Spring

II, Wr **ME 266K**

Design Project M E 344 M E 266P M E 144L M E 353

M F 366.1

ME 266P Design Project Lab

M E 344 M E 266K M E 144L M E 353 M F 366.1

CGE

Т

Career Gateway Varies with each track **CGE** Career Gateway Elective

Varies with each track

Math or Natural Sci. Elective

Choose from the ABET approved list found in the advising office or online CD*/GC* E 316 *Must take E 316L, 316M, 316N, or 316P RHE 306

MECHANICAL ENGINEERING

2016-2018/2018-2020/2020-2022 Undergraduate Catalog

Suggested Arrangement of Courses for Eight-Semester Program 126 credit hours

First Year:

33 credit hours

Fall:	Hours:	Spring:	Hours:
CH 301, Principles of Chemistry I	4 s3 3	M 408D, Sequences, Series, & Multivariable Calculu PHY 303K, Engineering Physics PHY 105M, Lab for PHY 303K Approved Visual and Performing Arts* Approved Social and Behavioral Science* M E 333T, Engineering Communication	3 1 3 3
TOTAL	16	TOTAL	17
Second Year: 33 credit hours			
Fall:	Hours:	Spring:	Hours:
M 427J, Diff. Eqns. With Linear Algebra PHY 303L, Engineering Physics II PHY 105N, Lab for PHY 303L E M 306, Statics M E 316T, Thermodynamics American and Texas Government	3 1 3 3	M 427L, Advanced Calculus for Applications II E M 319, Mechanics of Solids M E 318M, Intro. to Comp. & Engr. Comp. Methods M E 314D, Dynamics US History*	3 3 3
TOTAL	17	TOTAL	16
Third Year: 28 credit hours			
Fall:	Hours:	Spring:	Hours:
M E 330, Fluid Mechanics M E 130L, Experimental Fluid Mechanics M E 334, Materials Engineering M E 134L, Materials Engineering Laboratory M E 335, Engineering Statistics US History* TOTAL	13133 14	M E 339, Heat Transfer	13313
32 credit hours			
Fall: M E 344, Dynamic Systems and Controls M E 144L, Dynamic Systems and Controls Laborat M E 353, Engineering Finance M E 366J, Mechanical Engr. Design Methodology Approved Career Gateway Elective * American and Texas Government TOTAL	Hours:3 tory_13333	Spring: M E 266K, Mechanical Engineering Design Project M E 266P, Design Project Laboratory Approved Career Gateway Elective * Approved Career Gateway Elective * Approved Mathematics or Natural Science Elective* E 316, Masterworks of Literature TOTAL	Hours: 2 2 3 3 3 3 16
IUIAL	10	IOIAL	10

^{*}Check with the M E Academic Advising Office in ETC 2.146 for a list of approved courses.