

Engineering

Suggested Course of Study for University Transfer Students (85-88 Credit Hours)

Freshman Year	Sophomore Year
CHEM 1411	ECON 2301 or 2302
CHEM 1412	ENGR 2301
DFTG 1405	ENGR 2302
ENGL 1301	GOVT 2305
ENGL 1302	GOVT 2306
HIST 1301	Literature (3-6 Credit Hours)*
HIST 1302	MATH 2320
Lab Science (8 Credit Hours)	MATH 2415
MATH 2413	PHED Activity (1 Credit Hour)
MATH 2414	Visual/Fine Arts (3 Credit Hours)
PHED 1134	Computer (3-4 Credit Hours)
PHYS 2425	
PHYS 2426	
SPCH 1315 or 1321	

*Twelve semester hours of English are required for the Associate of Arts degree: nine semester hours of English are required for the Associate of Science degree. **Note:** Completion of the Field of Study may require an additional term(s). In the Core Curriculum for engineer majors ENGL 1301 no longer fulfills degree requirements at some universities; however, it must be taken (or tested out of) in order to meet the prerequisites for ENGL 1302.

ENGR 2301 Engineering Mechanics I (Statics & Dynamics) 3.3.0

A course for the professional level engineering student. Topics include: analysis of force-couple systems, equilibrium of particles and rigid bodies, structural analysis, distributed forces, friction, centroids and moments of area, particle kinematics and kinetics in various coordinate systems. Prerequisite: MATH 2414.

ENGR 2302 Engineering Mechanics II (Dynamics) 3.3.0

A continuation of ENGR 2301. Topics include: particle kinetics including work-energy and impulse-momentum principles, rigid body kinematics, moments of inertia, kinetics of rigid bodies in planar motion, energy and momentum methods applied to rigid bodies in planar motion. Prerequisite: ENGR 2301. Requisite: MATH 2415.