

PRE-ENGINEERING (MECHANICAL/CIVIL/AERO) SAMPLE EDUCATION PLAN

YEAR 1 (IF NOT PRE-CALCULUS READY)

FALL	WINTER	SPRING	SUMMER
ENGL&101	HU/SS	CHEM&121	HU/SS
ENGR110	ENGR&111 (2D Graphics)	ENGR&112 (3D Graphics)	HU/SS

MUST COMPLETE THE FOLLOWING BY END OF SUMMER MATH94-99, MATH&141 and MATH&142

YEAR 2

MATH&151 (Calculus I)	MATH&152 (Calculus II)	MATH&163 (Calculus 3)	
PHYS&221	PHYS&222	PHYS&223	
CHEM&161	CHEM&162	CHEM&163* or HU/SS	

YEAR 3

MATH& 254 (Multivariable)	MATH230 (Diff. Equations)	MATH220 (Linear)	
ENGR&214 (Statics)	ENGR&225 (Mechanics)	ENGR&215 (Dynamics)	
CS&131 (C++) or 141 (Java)	ENGR&224 (Thermo)	ENGR240 or ENGR&204	

YEAR 1 (IF STARTING IN PRE-CALCULUS)

ENGL&101	HU/SS	CHEM&121	
CS&131 (C++) or 141 (Java)	ENGR&111 (2D Graphics)	ENGR&112 (3D Graphics)	
MATH&141 (Pre-Calc I)	MATH&142 (Pre-Calc II)	MATH&151 (Calculus I)	

YEAR 2

FALL	WINTER	SPRING	SUMMER
MATH&152 (Calculus II)	MATH&163 (Calculus 3)	HU/SS	
PHYS&221	PHYS&222	PHYS&223	
CHEM&161	CHEM&162	CHEM&163* or HU/SS	

YEAR 3

MATH& 254 (Multivariable)	MATH230 (Diff. Equations)	MATH220 (Linear)	
ENGR&214 (Statics)	ENGR&225 (Mechanics)	ENGR&215 (Dynamics)	
HU/SS	ENGR&224 (Thermo)	ENGR240 or ENGR&204	

* CHEM&162 is required by universities on a semester track, verify certification requirements (pre-requisites needed to apply for the engineering major) with the university you intend to transfer to.

SPECIAL TIP 1: If you fluently speak Spanish, German or French you may be able to earn 10-20 credits via a test (<https://clep.collegeboard.org/exams/offered>)

SPECIAL TIP 2: Taking ENGL&235 Technical Writing in place of ENGL&102 could meet requirements for BOTH your university communications and engineering program.

RECOMMENDED HUMANITIES & SOCIAL SCIENCES (HS/SS)

The courses below are typically required for pre-engineering students at a transferring university.

CMST&220 Public Speaking (HU)

ECON&201 Micro-Economics or ECON&202 Macro-Economics (SS)

POLS&203 International Relations (SS)

PSYC&100 General Psychology (SS)