



**Guided Pathway**

Effective for the 2019-2020 Catalog

**First Year – Galveston College**

FIRST SEMESTER	SECOND SEMESTER
<sup>c</sup> ENGL 1301 Composition I	<sup>c</sup> Social & Behavioral Science Elective
<sup>c</sup> HIST 1301 US History I	<sup>c</sup> HIST 1302 US History II
<sup>c</sup> MATH 2413 Calculus I	<sup>c</sup> MATH 2414 Calculus II
CHEM 1409 Gen Chemistry for Eng Majors	<sup>c</sup> PHYS 2425 University Physics I
	<sup>c</sup> ENGL 1302 Composition II

Total Semester Hours: 14

Total Semester Hours: 17

**Second Year – Galveston College**

It's best to apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
<sup>c</sup> GOVT 2305 Federal Government	<sup>*c</sup> Communication Core Elective
MATH 2415 Calculus III	ENGR 2305 Electrical Circuits I
<sup>c</sup> PHYS 2426 University Physics II	ENGR 2332 Mechanics of Materials
ENGR 2301 Engineering Mechanics: Statics	ENGR 2302 Engineering Mechanics: Dynamics
	<sup>c</sup> Creative Arts Elective

Total Semester Hours: 14

Total Semester Hours: 15

**AS: Mechanical Engineering**

You will need to apply for the associate's degree at your community college. Contact your advisor there for more information.

**These courses may be taken at Galveston College or TSU**

<sup>*c</sup> Language, Philosophy, & Culture Core Elective	<sup>*c</sup> First Year Seminar Elective (Learning Frameworks)
<sup>c</sup> GOVT 2306 – Texas Government	

Total Semester Hours: 7-8

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
ELEN 2425 – Electrical Circuit Theory	CVEN 3423 – Strength of Materials (Spring Only)
ELEN 3320 – Engineering Analysis Techniques (Fall Only)	MEEN 3305 – Fluid Mechanics (Spring Only)
MEEN 3335 – Mechanical Vibration (Fall Only)	MEEN 3325 – Advanced Thermodynamics (Spring Only)
MEEN 2210 – Engineering Computer Aided Design (Fall Only)	MEEN 4443 – Linear Control Systems (Spring Only)
ENGR 1211 – Engineering Fundamentals I	MEEN 2115 – Engineering CAM (Spring Only)

Total Semester Hours: 14

Total Semester Hours: 15

**Fourth Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
MEEN 3345 – Heat Transfer (Fall Only)	MEEN 4320 – Mechanical Engineering Design II (Spring Only)
MEEN 4310 – Mechanical Engineering Design I (Fall Only)	MEEN 4425 – Mechatronics (Spring Only)
ENGR 4259 – Engineering Capstone I (Fall Only)	ENGR 4360 – Engineering Capstone II (Spring Only)
MEEN 4300 – Renewable Energy Systems and Applications (Fall Only)	ENGR 3311 – Engineering Mathematical Methods (Spring Only)
MEEN 4205 – Mechanical Engineering Experimental Lab (Fall Only)	MEEN 4420 – Thermal-Fluid System Design (Spring Only)

Total Semester Hours: 13

Total Semester Hours: 17

TOTAL: 126

**This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.**

Part-time students may also follow this sequence. Developmental coursework may be required.

\* You may take a different course to meet this requirement. A specific list is available from your advisor.

<sup>c</sup> This course counts for the Core Curriculum at any public college or university in Texas.

() Course numbers shown in parentheses are equivalent to these courses at **Tarleton State University**.