



AS Mechanical Engineering Field of Study  
**Guided Pathway**  
Effective beginning with the 2023-2024 catalog

**First Year - Collin College**

FIRST SEMESTER	SECOND SEMESTER
<sup>c</sup> ENGL 1301 Composition I	<sup>c</sup> ENGL 2311 Technical and Business Writing (see list below)
<sup>c</sup> GOVT 2306 Texas Government	<sup>c</sup> HIST 1302 US History II (see list below)
<sup>c</sup> HIST 1301 United States History I (see list below)	<sup>c</sup> MATH 2414 Calculus II
<sup>c</sup> MATH 2413 Calculus I (*See note below)	<sup>c</sup> PHYS 2425 University Physics I
<sup>c</sup> Creative Arts OR Social/Behavioral Sciences (see lists below)	
16 credit hours	14 credit hours

**Second Year - Collin College**

FIRST SEMESTER	SECOND SEMESTER
ENGR 2301 Engineering Mechanics I	CHEM 1409 General Chemistry for Engineering Majors
<sup>c</sup> GOVT 2305 Federal Government	ENGR 2302 Engineering Mechanics II
<sup>c</sup> MATH 2415 Calculus III	ENGR 2305 Electrical Circuits 1
<sup>c</sup> PHYS 2426 University Physics II	ENGR 2332 Mechanics of Materials
	<sup>c</sup> MATH 2320 Differential Equations
14 credit hours	16 credit hours

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Contact your advisor at Collin College for information about applying for your associate degree.

<sup>c</sup> Core Curriculum transferable to any public college or university in Texas.

1. Students should consult with an academic advisor since one or more mathematics courses may be required before enrolling in MATH 2413.

2. Course has prerequisite/corequisite of MATH 2320 that must be fulfilled to enroll.

If you plan to transfer, check with your intended transfer college or university prior to beginning this program to verify course transferability.

**Collin Options:**

*\*Students should consult with an academic advisor since one or more mathematics courses may be required before enrolling in MATH 2413.*

American History Component - HIST 1301, 1302, 2301

Creative Arts – ARTS 1301, 1303, 1304, 1313, DANC 2303, DRAM 1310, 2361, 2362, 2366, MUSI 1306, 1307, 1310

Social/Behavioral Sciences – ANTH 2302, 2346, 2351, ECON 1301, 2301, 2302, PSYC 2301, SOCI 1301, 1306

Communication - ENGL 1301 and either ENGL 1302 or 2311