



Multidisciplinary Engineering Technology (Mechatronics)  
 College of Engineering  
 Higher Education Center at McAllen (HECM)  
[ETID-advising@tamu.edu](mailto:ETID-advising@tamu.edu) | 979-845-4951  
[engineering.tamu.edu/etid/advising/index.html](http://engineering.tamu.edu/etid/advising/index.html)

2021-2022 Transfer Course Sheet  
 Minimum GPA | 2.5  
 Minimum Transferable Hours | 24  
 Second-Choice Major Eligible | YES

### Required Coursework for Admission

| Course Name                      | Hrs. | TCCNS             | TAMU                |
|----------------------------------|------|-------------------|---------------------|
| Engineering Math I               | 4    | MATH 2413         | MATH 151            |
| Engineering Math II              | 4    | MATH 2414         | MATH 152            |
| Chemistry for Engineers and Lab* | 4    | CHEM 1409         | CHEM 107/117        |
| Physics for Engineers            | 3    | PHYS 2425 or 2325 | PHYS 206 (See Note) |

**Transfer applicants admitted to Texas A&M Engineering with credit for PHYS 2425 (2325/2125) and PHYS 2426 (2326/2126) will only receive 6 credit hours towards their Engineering bachelor's degree if entering AFTER Spring 2018**

- Courses listed should be completed with a grade of C or better.
- Students may have to complete College Algebra (MATH 1314) or Pre-Calculus (MATH 2412) at their institution before taking MATH 2413.
- College Algebra, Trigonometry and Pre-Calculus are transferable courses but **will not** satisfy the Mathematics requirements in this degree plan.
- \*Students attending an institution without an equivalent to CHEM 107/117 can transfer an equivalent to Fundamentals of Chemistry II (CHEM 120-CHEM 1412) to meet the CHEM 107/117 requirement. \*

**The recommendations below represent what a typical TAMU student's schedule looks like during the first four semesters. If working to complete an Associate's Degree before transferring, please align your degree plan to satisfy TAMU degree requirements. You may not have to complete the coursework in the sequence below but this major recommends specific coursework to be completed.**

#### First Year

##### FALL SEMESTER

| TCCNS             | TAMU   | Course Name                    | Hrs.      |
|-------------------|--|--------------------------------|-----------|
| CHEM 1409         | CHEM 107/117                                     | Chemistry for Engineers        | 4         |
|                   | <a href="http://core.tamu.edu">core.tamu.edu</a> | American History               | 3         |
| MATH 2413         | MATH 151   | Engineering Math I             | 4         |
| ENGL 1301 or 1302 | ENGL 103 or 104                                  | Basic Composition <sup>1</sup> | 3         |
| <b>Total</b>      |  |                                | <b>14</b> |

##### SPRING SEMESTER

| TCCNS             | TAMU   | Course Name                                 | Hrs.         |
|-------------------|--|---|--------------|
|                   | <a href="http://core.tamu.edu">core.tamu.edu</a> | Language, Philosophy & Culture <sup>2</sup> | 3            |
|                   | <a href="http://core.tamu.edu">core.tamu.edu</a> | Social & Behavioral Science <sup>2</sup>    | 3            |
| MATH 2414         | MATH 152   | Engineering Math II                         | 4            |
| PHYS 2425 or 2325 | PHYS 206   | Physics for Engineers I                     | 3-4          |
| <b>Total</b>      |  |   | <b>13-14</b> |

#### Second Year

##### FALL SEMESTER

| TCCNS                  | TAMU                 | Course Name                          | Hrs.         |
|------------------------|----------------------|--------------------------------------|--------------|
| MATH XXXX              | MATH XXX             | Math elective <sup>3</sup>           | 3-4          |
| SPCH 1315 or ENGL 2311 | COMM 203 or ENGL 210 | Public Speaking or Technical Writing | 3            |
| GOVT 2305              | POLS 206             | American National Government         | 3            |
| PHYS 2426 or 2326      | PHYS 207             | Physics for Engineers II             | 3-4          |
| <b>Total</b>           |                      |                                      | <b>12-14</b> |

##### SPRING SEMESTER

| TCCNS        | TAMU   | Course Name                           | Hrs.      |
|--------------|--|---------------------------------------|-----------|
|              | <a href="http://core.tamu.edu">core.tamu.edu</a> | American History                      | 3         |
|              | <a href="http://core.tamu.edu">core.tamu.edu</a> | Creative Arts <sup>2</sup>            | 3         |
| GOVT 2306    | POLS 207   | State & Local Government              | 3         |
| ENGR 2301    | MMET 275   | Mechanics for Technology <sup>4</sup> | 3         |
| <b>Total</b> |  |                                       | <b>12</b> |

#### Notes:

1. Either ENGL 1301 or ENGL 1302 will fulfill the ENGL 104 requirement for an engineering degree.
2. Consider taking courses that fulfill the 3 hours of [International and Cultural Diversity requirement](#) when completing the Social and Behavioral Sciences, Language, Philosophy & Culture or Creative Arts requirements.
3. MATH 2415 or 2315 from some Texas community colleges transfers as MATH 253 or MATH 251; only three credit hours of MATH 253 will be used in the degree plan. MATH 2318 or 2418 from some Texas community colleges transfers as MATH 304 (Linear Algebra). MATH 2320 from some Texas community colleges transfers as MATH 308 (Differential Equations). STAT 302. Only one of MATH 253, MATH 251, MATH 304, MATH 308 or STAT 302 may be used to satisfy the math elective for the MXET degree.
4. ENGR 2301 is available at some Texas community colleges.



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Minimum GPA | 2.5  
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#### Coursework Timeline

- Competitive applicants will have the required coursework completed by the application deadline.
- Applicants to the summer/fall term **may be** asked to submit spring final grades, this is not a guarantee.
- Summer coursework **will not** be considered by admissions for summer/fall applicants.
- Fall coursework **will not** be considered by admissions for spring applicants.
- Applicants to the spring term should have the required coursework completed by the end of Summer II semester before applying.

#### Additional Transfer Requirements

- Transfer applicants should have completed a full semester (spring or fall) course load of 12 transferable hours (minimum) after graduating from high school.
- Meeting minimum requirements **does not** guarantee admission. The entire record is reviewed for consistency in coursework and grades.

#### Additional Information

- Applicants should be serious about earning a degree in Multidisciplinary Engineering Technology.
- Transfer applicants are instructed **NOT** to accept transfer admission to any major with the expectation of later applying for an on-campus change of major.
- The department may consider in-progress coursework if it is listed on the student's application.

#### Career & Educational Opportunities

Multidisciplinary Engineering Technology (MXET) prepares students for careers requiring an understanding of technical problems and systems that combine principles from two or more engineering technology disciplines. The degree is designed to be flexible, giving the student a strong background in electronic and mechanical systems and then augmented with a **focus area**. Graduates of the program receive a rigorous technical education and typically take engineering and technology positions appropriate to their focus area of study.

The MXET curriculum is based on a strong underpinning of engineering math and science courses followed by a core technical sequence. This core includes mechanical, electronic and embedded systems/software fundamentals, principles and design concepts. Throughout their curriculum, students work on multiple open-ended projects to design, implement, test, and evaluate mechanical and electronic hardware and software systems. One of the most unique aspects of the Multidisciplinary Engineering Technology program is that most technical courses provide a hands-on laboratory experience using state-of-the-art equipment and industry-standard design and analysis software. The technical curriculum is augmented with courses in written/oral communications and technical project management. A team-based industry-sponsored capstone design sequence provides a challenging opportunity to apply technical, managerial, and communications skills to solving a real-world problem. For more information please visit [careercenter.tamu.edu](http://careercenter.tamu.edu).

#### Transfer Course Sheet Notes

1. Admission preference is given to applicants with the highest GPA and the most appropriate courses completed.
2. Transfer applicants are encouraged to complete [University Core Curriculum](#) coursework found in the [Undergraduate Catalog](#) unless specified above.
3. This Transfer Course Sheet was supported in a partnership between the Office of Admissions and the College of Engineering at Texas A&M University with the Undergraduate Catalog having the most extant and definitive information.