**Bachelor of Science in Mechanical Engineering - Mechanical Engineering major**

*A Suggested Sequence of Required Courses for a McLennan Community College transfer student (2022-2023 Catalog)*

### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
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<tbody>
<tr>
<td>MCC BU Title Hours MCC BU Title Hours</td>
<td></td>
</tr>
<tr>
<td>ENGR 1201 EGR 1301 Intro to Engineering 2</td>
<td>ENGR 2304 EGR 1302 Engineering Analysis 3</td>
</tr>
<tr>
<td>MATH 2413 MTH 1321 Calculus I 4</td>
<td>MATH 2414 MTH 1322 Calculus II 4</td>
</tr>
<tr>
<td>CHEM 1411 CHE 1301 Chemistry I 4</td>
<td>PHYS 2425 PHY 1420 General Physics I 4</td>
</tr>
<tr>
<td>PHL 1316 REL 1310 Christian Scriptures 3</td>
<td>PHIL 1317 REL 1350 Christian Heritage 3</td>
</tr>
<tr>
<td>ENGL 1301* ENG 1310 Writing &amp; Academic Inquiry 3</td>
<td>PHED 11XX LF 11XX Lifetime Fitness 1</td>
</tr>
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### Summer Term

<table>
<thead>
<tr>
<th>Summer I</th>
<th>Summer II</th>
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<tbody>
<tr>
<td>MCC BU Title Hours MCC BU Title Hours</td>
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</tr>
<tr>
<td>FLC Equivalent FLCC Foreign Language / Culture 3-4</td>
<td>ENGL 2311* PWR 3300 Technical Writing 3</td>
</tr>
<tr>
<td><strong>3</strong></td>
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### Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>MCC BU Title Hours MCC BU Title Hours</td>
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</tr>
<tr>
<td>ENGR 2301 ME 2320 Statics 3</td>
<td>ENGR 2302 ME 2321 Dynamics 3</td>
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<tr>
<td>MATH 2415 MTH 2321 Calculus III 4</td>
<td>ENGR 2305* ELC 2320 Circuits 3</td>
</tr>
<tr>
<td>PHYS 2426 PHY 1430 General Physics II 4</td>
<td>MATH 2320* MTH 3325 Ordinary Differential Equations 3</td>
</tr>
<tr>
<td>ENGR 2308* ECO 2108 Engineering Economics 3</td>
<td>ENGL 2321** ENG 2301 British Literature 3</td>
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<tr>
<td>MATH 2318 MTH 2311 Linear Algebra 3</td>
<td>PHED 11XX LF 11XX Lifetime Fitness 1</td>
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### Junior Year

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<thead>
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<th>Fall</th>
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<tbody>
<tr>
<td>MCC BU Title Hours MCC BU Title Hours</td>
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</tr>
<tr>
<td>CHA 1088 Chapel 0</td>
<td>ME 3323 Machine Design 3</td>
</tr>
<tr>
<td>EGR 3380 Engineering Design I 3</td>
<td>ME 3322 Materials &amp; Manufacturing 3</td>
</tr>
<tr>
<td>ME 3320 Strength of Materials 3</td>
<td>ME 3321 Fluid Dynamics 3</td>
</tr>
<tr>
<td>ME 4327 Numerical Methods 3</td>
<td>ME 3420 Instrumentation &amp; Measurements 4</td>
</tr>
<tr>
<td>STA 3381 Statistics 3</td>
<td>GTX 2301 Ancient Great Texts 3</td>
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<tr>
<td>ME 2345 Thermodynamics 3</td>
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<tr>
<td>EGR 1101 New Student Experience 1</td>
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### Senior Year

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<tr>
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<tr>
<td>MCC BU Title Hours MCC BU Title Hours</td>
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</tr>
<tr>
<td>ME 4325 Dynamic Systems 3</td>
<td>EGR 4390 Engineering Design II 3</td>
</tr>
<tr>
<td>ME 4345 Heat Transfer 3</td>
<td>EGR 3305 Engineering Ethics 3</td>
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<tr>
<td>ME 43XX ME Elective 3</td>
<td>ELC 4335 Systems Modeling &amp; Controls 3</td>
</tr>
<tr>
<td>ME 3345 Advanced Thermodynamics 3</td>
<td>ME 43XX ME Elective 3</td>
</tr>
<tr>
<td>ME 3145 Thermo/Fluids Lab 1</td>
<td>ME 43XX ME Elective 3</td>
</tr>
<tr>
<td>LF 11XX Lifetime Fitness 1</td>
<td>ME 2170 CAD Lab 1</td>
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<tr>
<td>ME 3122 Materials &amp; Manufacturing Lab 1</td>
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### Notes about major requirements:
- Students must earn a 'B' or higher in ENGR 1201 and EGR 2304, and 'C' or higher in math courses completed at MCC.
- Students must earn a 3.25 cumulative GPA at MCC to declare an engineering major at Baylor.
- Students are encouraged to complete full course sequences at one institution when applicable.

*Choose either Foreign Language through second-level proficiency (1412 at MCC) or choose 1 culture course (see reverse for details)

**Other options to fulfill this requirement from MCC include ENGL 2322, 2326, 2327, 2328, 2331, 2332, 2333.
The Foreign Language and Culture (FLC) requirement can be satisfied by any of the following means:

1. Completing second-level proficiency (1302/1412 or higher) in a Foreign or Classical Language (minimum 3 hours)
   a. ARB, CHI, FRE, GER, ITA, JPN, KOR, POR, RUS, SPA, SWA, GKC, HEB, LAT

2. Completing second-level proficiency (1406 or higher) in American Sign Language (minimum 3 hours) a.CSD

3. Taking 3 hours of a Culture course included on the FLC Distribution List for Engineering Programs

<table>
<thead>
<tr>
<th>MCC Course</th>
<th>BU Course</th>
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<tbody>
<tr>
<td>ANTH 2346</td>
<td>ANT 1305</td>
<td>Introduction to Anthropology</td>
</tr>
<tr>
<td>ANTH 23451</td>
<td>ANT 1325</td>
<td>Introduction to Global Health</td>
</tr>
<tr>
<td>FREN 2312</td>
<td>FRE 2320</td>
<td>Passport to the French-Speaking World</td>
</tr>
<tr>
<td>SPAN 2312</td>
<td>SPA 2320</td>
<td>Exploring the Spanish-Speaking World</td>
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