The Mechanical Engineering program is accredited by the EAC Accreditation Commission of ABET. The Commission can be contacted at ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700.

Although this handbook is as accurate as we can make it, the WKU Undergraduate Catalog is the final authority on policies and procedures.
Welcome
Welcome to the Mechanical Engineering (ME) program at Western Kentucky University (WKU). The faculty has assembled this handbook to familiarize you with the policies and standards associated with this program. This handbook will be periodically updated, so check the program home page from www.wku.edu/seas for the latest edition. Although this handbook is as accurate as we can make it, the WKU Undergraduate Catalog is the final authority on policies and procedures. Copies of the catalog are available online in PDF format at the WKU web page at https://www.wku.edu/undergraduatecatalog/index.php.

ABET Accreditation, Mission, and Student Outcomes
The Mechanical Engineering program is accredited by the EAC Accreditation Commission of ABET. The Commission can be contacted at ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700.

The Mission Statement for the ME program is shown on page 6, along with the Program Objectives from the ABET ME accreditation plan. Program Objectives are intended to be a concise description of what WKU graduates actually do in their practice 3-5 years after graduation. We survey our graduates on a regular basis to ensure these Objectives are a realistic description of their activities and to determine the graduates’ level of preparation for these activities. The Student Outcomes are also listed on page 7. These Student Outcomes are a description of the skills the mechanical engineering graduate should possess at the point of graduation.

Minors
A wide range of minors are available at WKU. Minors in the Department of Engineering include Systems Engineering and Electrical Engineering. Some students who complete the ME degree program requirements choose to earn a minor in Mathematics with additional Mathematics coursework, see the Mathematics department for details. Other minors are described in the WKU catalog under the appropriate program or department.

Curriculum and Courses
Taking personal responsibility for tracking your progress through the curriculum is key to your academic success. A suggested plan of study is shown on page 8. This form is a template for completing the degree program in eight semesters. You must recognize that this can only be achieved by taking a relatively aggressive pace of courses. If you get off sequence or you cannot take the full listed load for a given semester, or if you start in a mathematics course below MATH 136: Calculus I, make sure you work with your academic advisor to select the appropriate courses to minimize prerequisite problems in later semesters.
The table on page 9 documents the prerequisites and corequisites for courses in the ME program. **You must pay very close attention to these requirements, so be cautious in planning and modifying your schedule.** For instance, if you drop a class without considering the prerequisite requirements for the next semester, you may need to add a semester or two to your course of study. Once again, work carefully with your academic advisor.

**Academic Advising**
If you choose to change your major to Mechanical Engineering, you must use a “Change of Major/Minor/Advisor” form available on TOPNET. **Students declaring ME as their major must use “543P Mechanical Engineering Pre-Major” for the “Major 1” code and name until their records are reviewed by an ME faculty advisor.**

Academic advising for students in MATH 116: College Algebra and lower is managed by the Academic Advising and Retention Center (AARC) and the Ogden College Dean’s office. Student advising for those students in MATH 117 (Trigonometry) and higher is done by faculty in the mechanical engineering program. Scheduling advising appointments is generally done in TOPNET, select the appropriate advisor and choose a 15 minute block for your appointment from the open appointments on the calendar. You may need to contact your academic advisor by email to establish a meeting time.

**Academic advisors are typically assigned as follows:**
- New students and those not currently taking ME 180: Prof. Henry Joel Lenoir, EBS 2118
- Students currently in/above ME 180, not yet in ME 200: Dr. Kevin Schmaltz, EBS 2112
- Students currently in/above ME 200, not yet in ME 300: Dr. Morteza Nurcheshmeh, EBS 2116
- Students currently in/above ME 300: Dr. Chris Byrne, EBS 2120
- At times Prof. Robert Choate (EBS 2114) will assist with advising.

The iCAP (Interactive Curriculum and Academic Progress) system in TOPNET is used to monitor degree program progress. Be sure to review your iCAP report regularly and always check it before an advising appointment. Go to advising appointment prepared with a course plan for discussion with advisor. The plan will be revised as appropriate.

**World Language Proficiency**
**Foreign language course placement is required.** The WKU foreign language requirements have changed for students entering WKU in summer 2004 and later. See the Modern Languages page at http://wku.edu/colonnade/worldlanguageproficiency.php for details on the World Language Proficiency policy.

**Academic Standards and Graduation Requirements**
The individual student is responsible for understanding and following the Academic Standards for the program. Basic admission and academic policies of the program are listed on page 3. Students who enter the ME program are categorized as “pre-majors” until they satisfy the major eligibility standards. **The eligibility standards for transition from pre-major to major are listed on page 3. Pay particular attention to the requirement of a grade of C or better for the courses in the program. All standards are strictly enforced. Your progress towards satisfying these requirements is tracked on the iCAP (Interactive Curriculum and Academic Progress) system found in TOPNET. See your advisor for details.**
WKU Program in Mechanical Engineering: Academic Standards

Pre-Major Status
All students intending to major in mechanical engineering are admitted as pre-majors in the program. Progression from a pre-major status to full enrollment as a major is performance based. After all pre-major requirements have been satisfied, a student “declares a major” by filing a Change of Major/Minor/Advisor Form with the assistance of their faculty advisor.

Eligibility to transition from Pre-Major to Major in the WKU ME Program
In order to transition from the pre-major to major and to graduate with a degree in mechanical engineering, students must earn a grade of “C” or better in each of these courses:

- College Composition (F-W1) (e.g. ENG 100) 3 hrs.
- Human Communications (F-OC) (e.g. COMM 145) 3 hrs.
- MATH 136: Calculus I 4 hrs.
- MATH 137: Calculus II 4 hrs.
- PHYS 255/256: University Physics I/LAB 5 hrs.
- CHEM 116 or CHEM 120 3 or 4 hrs.
- EM 222: Statics 3 hrs.

TOTAL HOURS: 25 or 26 hours

These Pre-Major eligibility requirements MUST be completed before enrolling in ME 200: Sophomore Design. Check iCAP for progress towards meeting these requirements.

Graduation Requirements
After satisfying the requirements to transition from Major to Pre-Major and to graduate with a degree in mechanical engineering, students must satisfy the following three additional requirements:

• Satisfy the graduation requirements of WKU, including a minimum GPA of 2.0 in all coursework.

• Have a grade of C or better for each course in the Pre-Major list above as well as in all those identified as such in course pre-requisites. For program courses this includes: Math 136, Math 137, Chem 116/106 or Chem 120/121, Phys 255/256, ME176, ME180, ME200, ME220, ME240, EM222, EM303.

• Follow the academic regulations published in the WKU Undergraduate Catalog.

Note: courses not requiring a C or higher are Math 237, Math 331, Phys 265/266, ME241, ME300, ME310, ME 325/333, ME330/332, ME344, ME347, ME400, ME412, EM313, EE210, upper level electives.

These academic standards are encoded into iCAP for review by students and faculty advisors as well as for degree certification by the Registrar’s office.
Mathematics and Science Elective Courses
The Mechanical Engineering Program requires students to complete four required mathematics courses, three required science courses with labs, and one mathematics/science elective course. The total number of hours of mathematics and science (MATH 136/137/237/331, PHYS 255/256/265/266, CHEM 116/106 or 120/121, and the math/science elective) must be greater than or equal to 32 hours. Course credit received in these courses through AP and other WKU approved alternative methods will count towards the total of 32 hours. The Mathematics and Science Elective may be chosen from the following list:

- ASTR 214: GENERAL ASTRONOMY
- BIOL 120/121: BIOLOGICAL CONCEPTS: CELLS METABOLISM AND GENETICS
- BIOL 122/123: BIOLOGICAL CONCEPTS: EVOLUTION, DIVERSITY, AND ECOLOGY
- BIOL 207: GENERAL MICROBIOLOGY
- CHEM 222/223: COLLEGE CHEMISTRY II
- PHYS 316: COMPUTATIONAL PHYSICS
- PHYS 318: DATA ACQUISITION USING LABVIEW
- PHYS 320: INTRODUCTORY MODERN PHYSICS I
- MATH 305: INTRODUCTION TO MATHEMATICAL MODELING
- MATH 307: INTRODUCTION TO LINEAR ALGEBRA (used as prerequisite for some senior elective courses)
- MATH 310: INTRODUCTION TO DISCRETE MATHEMATICS
- MATH 370: APPLIED TECHNIQUES IN MATHEMATICS
- STAT 301: INTRODUCTORY PROBABILITY AND APPLIED STATISTICS

Work with your academic advisor to select an appropriate elective. The elective is intended to broaden your background and help you prepare for the start of your career. If you are interested in a Mathematics minor or double major, work with the Mathematics department since not all Mathematics courses count towards the minor or major.

Course Offering Plan
Most of the courses in the ME program are offered in fall and spring terms. At the current time, the following courses are offered only once per year.

- ME 325: Elements of Heat Transfer Fall term
- ME 333: Heat Transfer Laboratory Fall term
- ME 330: Fluid Mechanics Spring term
- ME 332: Fluid Mechanics Laboratory Spring term

The flow of classes for graduation is shown in graphical form on page 10. This diagram shows the various course pathways through the curriculum to the capstone design course, ME 412 (ENGR 491). This capstone course is typically taken during final semester of study. Work very carefully with your academic advisor each semester to keep your progress through the curriculum on track.
Technical Electives

Four Technical Electives are required in the ME program. These are primarily satisfied through a combination of multiple offerings of the ME Selected Topics and Projects courses:

- ME 494: WKU – ME Selected Topics 2 credits
- ME 495: WKU – ME Selected Projects 1 credit
- ME 496: WKU – ME Selected Topics (Fall) 3 credits
- ME 497: WKU – ME Selected Topics (Spring) 3 credits
- ME 498: UK – ME Selected Topics
- ME 499: UK – ME Selected Topics
- ENGR360: MODELING AND SIMULATION OF DYNAMIC SYSTEMS
- ENGR400: SYSTEMS ENGINEERING
- EE460: CONTINUOUS CONTROL SYSTEMS
- ME321: THERMODYNAMICS II
- PHYS318: DATA ACQUISITION USING LABVIEW (unless used for Math/sci)

Technical Elective (ME49x) topics offered in recent semesters include:

- Reliability Engineering
- Finite Element Analysis
- Kinematics and Dynamics of Machinery
- Failure Analysis and Prevention
- Vibrations
- Composite Materials
- Advanced Strength of Materials
- Energy Conversion & Sustainability
- Advanced Dynamics
- Materials Processing and Selection
- Manufacturing Processes
- Engineering Thermodynamics II

These and similar courses will be offered each year, often including the Winter or Summer terms. Watch TOPNET for scheduled offerings and the ME Program bulletin board for course announcements as they become available.

Note that some of these technical electives are available to students in the third year of the program. Discuss your specific interests in technical electives with your academic advisor.
**Student Laptops for Mechanical Engineering**
The Mechanical Engineering program has a required laptop initiative beginning in ME 180: Freshman Design II. Course fees are used in this and some subsequent courses to provide software and other resources for student use in class; see TOPNET for specific course fees. The Mechanical Engineering Program recognizes most incoming students purchase laptops for use inside and outside of class. WKU has an easily accessible wireless environment that makes laptops an attractive choice over a desktop computer. **However, not all laptops are suitable for use with engineering software.**

Mac laptops WILL NOT WORK for Mechanical Engineering software such as SolidWorks and Mathcad, even with the ability to boot in Windows. A laptop running native Windows is required to run most engineering software such as AutoCAD, Solidworks, Mathcad, etc. Students are highly advised to purchase a repair and service plan to cover their computer systems. Due to the nature of their usage environment, laptops might need a damage protection plan as well.

**Computer Specifications for Mechanical Engineering Laptops**

**Operating System:**
- Microsoft Windows 10, with Windows 10 PRO preferred
- Mac laptops will NOT work for ME software such as SolidWorks!!!

**RAM memory:**
- At least 8 gigabytes of RAM required
- For best performance with engineering software, use 16 gigabytes

**Graphics cards:**
- Integrated graphics **WILL NOT WORK WITH SOLIDWORKS!!!**
- Discrete dedicated graphics card for maximum performance
- NVIDIA graphics card preferred, 3 GB or more of video card memory (Quadro cards are superior but hard to find, GeForce cards are usually ok)
- Avoid very high resolution displays such as UHD, these resolutions are not supported by SolidWorks and other software

**Hard Drive:**
- 500 gigabytes of storage minimum, solid state drives preferred

**Optical Media:**
- DVD reader/burner required, external USB version is sufficient but still required

**Default Software:**
- Microsoft Office: Word, Excel, Powerpoint. Available free to all WKU students

**Security Software:**
- Integrated Windows Defender required.
- Packages such as Norton, McAfee, or Webroot must be uninstalled to run SolidWorks

**Pointing device:**
- External mouse is required, Logitech Trackball M570 is preferred and recommended

Please contact joel.lenoir@wku.edu or the ME 180 instructor (see course listing in Topnet) if you have any questions. The WKU Bookstore stocks a Dell laptop for engineering students that is capable of running SolidWorks. Most of the lower priced machines that meet the requirements are around $1,000 to $1,300 and higher end machine are $1,800+. 
WKU Program in Mechanical Engineering

Mission Statement
The Mechanical Engineering program produces graduates who are well prepared for the start of productive, successful careers as practicing engineers. Our graduates will have a strong competitive advantage with their unique background of engineering fundamentals combined with practical knowledge and experience.

The Mechanical Engineering program will provide a project-based, learner-driven environment relevant to the needs of our region. In support of this learning environment, the professional engineering activities of the faculty will create opportunities for the students to practice the art and science of contemporary Mechanical Engineering.

Program Educational Objectives
Within a few years of completing the Mechanical Engineering Program a graduate will:

- Either be contributing to their region’s economic development through employment in mechanical engineering or related professions, or pursuing advanced credentials
- Occupy leadership roles in their profession, or in their communities, as their career develops
- Demonstrate professionalism on diverse teams across a range of varied responsibilities
- Be proactive in their professional development and engage in the continuing education needed to maintain and enhance their career

Student Outcomes
1. Mechanical Engineering graduates have an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. Mechanical Engineering graduates have an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. Mechanical Engineering graduates have an ability to communicate effectively with a range of audiences.
4. Mechanical Engineering graduates have an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. Mechanical Engineering graduates have an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. Mechanical Engineering graduates have an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions.
7. Mechanical Engineering graduates have an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.
WKU Bachelor of Science  
Program in Mechanical Engineering  
Curriculum and Suggested Plan of Study

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
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<tbody>
<tr>
<td>ME 176 Freshman Design</td>
<td>ME 180 Freshman Design II</td>
</tr>
<tr>
<td>CHEM 116/106 or 120/121</td>
<td>MATH 137 Calculus II</td>
</tr>
<tr>
<td>Chemistry/LAB 4/5</td>
<td>PHYS 255/256 Physics I &amp; LAB (4,1) 5</td>
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<tr>
<td>MATH 136 Calculus I 4</td>
<td>EM 221 or 222 Statics 3</td>
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<tr>
<td>College Composition (F-W1) 3</td>
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</tr>
<tr>
<td>Human Communications (F-OC) 2</td>
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<td><strong>15/16</strong></td>
<td><strong>15</strong></td>
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<tr>
<td>MATH 237 Multivariable Calculus</td>
<td>MATH 331 Differential Equations 3</td>
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<tr>
<td>ME 240/241 Mats./Meth. &amp; LAB (3,1) 4</td>
<td>EM 302 or 303 Mech. Def. Solids 3</td>
</tr>
<tr>
<td>PHYS 265/266 Physics II &amp; B (4,1) 5</td>
<td>EE 210 Circuits/Networks I 3.5</td>
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<tr>
<td>HIST 101 or 102 World History I or II 3</td>
<td>ME 200 Sophomore Design 3</td>
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<td><strong>15.5</strong></td>
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<tr>
<td>ME 220 Eng. Thermo I 3</td>
<td>ME 300 Junior Design 2</td>
</tr>
<tr>
<td>ME 310 Eng. Instrumentation 3</td>
<td>ME 330/332 Fluid Mechanics/LAB 3,1</td>
</tr>
<tr>
<td>ME 344 Mechanical Design 3</td>
<td>EM 313 Dynamics 3</td>
</tr>
<tr>
<td>ME 347 Mechanics LAB 1</td>
<td>ME --- ME Tech Elective 1 of 4 3</td>
</tr>
<tr>
<td>MATH/SCIENCE ELECTIVE 3</td>
<td>SOCIAL &amp; BEHAVIORAL</td>
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<tr>
<td>ARTS &amp; HUMANITIES (E-AH) 3</td>
<td>STUDIES (E-SB) 3</td>
</tr>
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<td><strong>16</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>ME 325/333 Heat Transfer/LAB 3,1</td>
<td>ME 412 (ENGR491) ME Senior Project 3</td>
</tr>
<tr>
<td>ME 400 (ENGR490) Mech. Engr. Design 2</td>
<td>ME --- ME Tech Elective 3 of 4 3</td>
</tr>
<tr>
<td>ME --- ME Tech Elective 2 of 4 3</td>
<td>ME --- ME Tech Elective 4 of 4 3</td>
</tr>
<tr>
<td>ENG 300 Writing Discip. (F-W2) 3</td>
<td>CONNECTIONS: LOCAL TO GLOBAL (K-LG) 3</td>
</tr>
<tr>
<td>CONNECTIONS: SOCIAL AND CULTURAL (K-SC) 3</td>
<td>CONNECTIONS: SYSTEMS (K-SY) 3</td>
</tr>
<tr>
<td><strong>15</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**PROGRAM TOTAL = 122.5/123.5 hours**

Notes:
- Review the WKU Undergraduate Catalog for the current policies concerning World Language Proficiency.
- The mathematics and science elective must be chosen from the approved list, for a total of 32 hours of approved mathematics and science courses.
- Consult the WKU Undergraduate Catalog and ICAP for General Education courses.
- Technical electives and other required courses are often offered in Winter and Summer terms, watch TOPNET for specific offerings.

August 15, 2018
### WKU Program in Mechanical Engineering

Pre-requisite: required before taking a course, Co-requisite: a course required at the same time, Red font indicates a change beginning Fall 2018

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Co-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 176: University Experience Mech. Engr.</td>
<td>none</td>
<td>MATH 117 or higher</td>
</tr>
<tr>
<td>ME 180: Freshman Design II</td>
<td>ME 176 ≥ C, MATH 136 ≥ C</td>
<td>none</td>
</tr>
<tr>
<td>ME 200: Sophomore Design</td>
<td>ME 180 ≥ C, Pre-Major requirements satisfied in iCAP</td>
<td>none</td>
</tr>
<tr>
<td>ME 220: Engineering Thermodynamics I</td>
<td>EM 222, MATH 331 (may be taken concurrently)</td>
<td>none</td>
</tr>
<tr>
<td>ME 240: Materials and Methods of Mfg.</td>
<td>CHEM 116 ≥ C or 120 ≥ C, MATH 136 ≥ C</td>
<td>ME 241</td>
</tr>
<tr>
<td>ME 241: Materials and Methods of Mfg. Lab</td>
<td>CHEM 106 or Chem 121</td>
<td>ME240</td>
</tr>
<tr>
<td>ME 300: Junior Design</td>
<td>ME 200 ≥ C, ME220, ME 344</td>
<td>none</td>
</tr>
<tr>
<td>ME 310: Engineering Instrumentation &amp; Exp.</td>
<td>EE210, EM 303, ME347 (may be taken concurrently)</td>
<td>none</td>
</tr>
<tr>
<td>ME 325: Heat Transfer</td>
<td>ME 330</td>
<td>ME333</td>
</tr>
<tr>
<td>ME 330: Fluid Mechanics</td>
<td>MATH 331, Math237, ME 220 ≥ C</td>
<td>ME332</td>
</tr>
<tr>
<td>ME 332: Fluid Mechanics Laboratory</td>
<td>ME310</td>
<td>ME 330</td>
</tr>
<tr>
<td>ME 333: Heat Transfer Laboratory</td>
<td>ME332</td>
<td>ME 325</td>
</tr>
<tr>
<td>ME 344: Mechanical Design</td>
<td>EM 303 ≥ C, ME 240 ≥ C</td>
<td>none</td>
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<tr>
<td>ME 347: Mechanical Systems Laboratory</td>
<td>ME 241; EM 303 and MATH 331 (may be taken concurrently)</td>
<td>none</td>
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<tr>
<td>ME 400: Mechanical Engineering Design</td>
<td>ME 300,</td>
<td>none</td>
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<tr>
<td>ME 412: ME Senior Project</td>
<td>ME 400, ME 325 (may be taken concurrently)</td>
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<td>ME 496: WKU ME Selected Topics (Fall)</td>
<td>Course Dependent</td>
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<tr>
<td>ME 497: WKU ME Selected Topics (Spring)</td>
<td>Course Dependent</td>
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<tr>
<td>EM 222: Statics</td>
<td>MATH 137 and PHYS 255 (may be taken concurrently)</td>
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<tr>
<td>EM 303: Mech. of Deformable Solids</td>
<td>MATH 137 ≥ C, EM 222 ≥ C, PHYS 255 ≥ C</td>
<td>none</td>
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<tr>
<td>EM 313: Dynamics</td>
<td>EM 222 ≥ C, PHYS 255 ≥ C MATH 331 (may be taken concurrently)</td>
<td>none</td>
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<tr>
<td>EE 210: Circuits &amp; Networks 1</td>
<td>MATH 137 ≥ C, PHYS 265 (may be taken concurrently)</td>
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<tr>
<td>CHEM 116/106 or 120/121: Chemistry / LAB</td>
<td>Placement</td>
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<td>MATH 136: Calculus I</td>
<td>Placement or ACT score</td>
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<tr>
<td>MATH 137: Calculus II</td>
<td>MATH 136 ≥ C</td>
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<tr>
<td>MATH 237: Multivariable Calculus</td>
<td>MATH 137 ≥ C</td>
<td></td>
</tr>
<tr>
<td>MATH 331: Differential Equations</td>
<td>MATH 137 ≥ C</td>
<td></td>
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<tr>
<td>PHYS 255/256: University Physics I / LAB</td>
<td>MATH 136 ≥ C, MATH 137 (may be taken concurrently)</td>
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</tr>
<tr>
<td>PHYS 265/266: University Physics II / LAB</td>
<td>PHYS 255 ≥ C, MATH 137 ≥ C</td>
<td></td>
</tr>
</tbody>
</table>
Mechanical Engineering

Critical Path to Graduation
(F = Fall Term, S = Spring Term)

Math 136 (F, S)

Chem 116/106, or
Chem 120/122 (F, S)

Math 137 (F, S)
Phys 255/256 (F, S)
EM 222 (F, S)

PRE-MAJOR
Requirements
Satisfied in ICAP

Math 136

Phys 265/266 (F, S)
EM 303 (F, S)

Math/Science Elective
3 hrs
ASTR 214, BIOL 120,
BIOL 122, BIOL 207,
CHEM 222, PHYS 316,
PHYS 318, PHYS 320,
MATH 305, MATH 307,
MATH 310, MATH 370,
STAT 301.
Note: a lab might be required

ME 180 (F, S)

Math 240/241 (F, S)
Math 237 (F, S)
Phys 265/266 (F, S)
EM 303 (F, S)

Math 331 (F, S)
EM 313 (F, S)
EE 210 (F, S)
ME 347 (F, S)

Pre-Major
Requirements
Satisfied in ICAP

Math/Sci Elective (3hrs)
ME Technical Electives (12 hrs) (F, S)

Math/Sci Elective (3hrs)
ME Technical Electives (12 hrs) (F, S)

Phys 222 (F, S)

Chem 116/106, or
Chem 120/122 (F, S)

ME 176 (F, S)

ME 180 (F, S)

ME 180 (F, S)

Math/Sci Elective (3hrs)
ME Technical Electives (12 hrs) (F, S)

Math/Sci Elective (3hrs)
ME Technical Electives (12 hrs) (F, S)

ME 244 (F, S)

ME 220 (F, S)

ME 310 (F, S)

ME 310 (F, S)

ME 320/332 (S)

ME 320/332 (S)

ME 330/332 (F)

ME 330/332 (F)

ME 412 (F, S)

ME 412 (F, S)

ME 300 (F, S)

ME 300 (F, S)

ME 400 (F, S)

ME 400 (F, S)

COMM 145 (F-OC)
ENGL 100 (F-W1)

ME 494 (2hr), ME 495 (1hr),
ME 496, ME 497, ME 498,
ME 499, ENGR 360,
ENGR 400, EE 460, ME 321,
and PHYS 318 (unless used
for Math/Sci elective)

ME Technical Electives
12 hrs

The Colonnade Program

WKU General Education: 30 hrs
ENG 100, ENGL 200, ENGL 300,
HIST 101 OR HIST 102,
COMM 145,
ARTS & HUMANITIES (E -AH),
SOCIAL & BEHAVIORAL STUDIES (E -SB),
CONNECTIONS: SOCIAL & CULTURAL (K -SC),
CONNECTIONS: LOCAL TO GLOBAL (K -LG)
CONNECTIONS: SYSTEMS (K -SY)

Math and Science are covered by
program requirements

World Language Proficiency as described
in Current Undergraduate Catalog

Bachelors of Science in Mechanical Engineering Degree Completed with 122.5/123.5 hours

REFER TO PREREQUISITE
CHART AND CATALOG FOR
ACTUAL COURSE
REQUIREMENTS

Note: a lab might be required