About This Program
Looking to jump-start your career in engineering? The Associate of Applied Science in Mechanical Engineering Technology provides you with the technical skills and knowledge needed to succeed in a wide range of mechanical engineering roles. With hands-on training, experienced faculty, and industry-standard tools, you'll gain practical experience and be ready to hit the ground running in the industry. Read more...

Contact Information
- Paul Dykshoorn | pdykshoo@kent.edu | 330-308-7475
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery
- Delivery:
  - In person
- Location
  - Tuscarawas Campus

Examples of Possible Careers*
Calibration technologists and technicians and engineering technologists and technicians, except drafters, all other
- 2.1% slower than the average
- 91,600 number of jobs
- $64,190 potential earnings

Electro-mechanical and mechatronics technologists and technicians
- 3.0% about as fast as the average
- 14,600 number of jobs
- $59,800 potential earnings

Mechanical drafters
- 8.3% decline
- 57,500 number of jobs
- $58,270 potential earnings

Mechanical engineering technologists and technicians
- 3.1% about as fast as the average
- 43,500 number of jobs
- $58,230 potential earnings

Additional Careers
- Engineering technician
- Design specialist
- Mechanical Designer
- Project Engineer

Accreditation

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics’ Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements
The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the Coursework tab.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tr>
<td>EERT 22014</td>
<td>MICROPROCESSORS AND ROBOTICS</td>
<td>3</td>
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<tr>
<td>ENGT 23099</td>
<td>ENGINEERING TECHNOLOGY DESIGN PROJECT (ELR)</td>
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<tr>
<td>MERT 12000</td>
<td>ENGINEERING DRAWING</td>
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<td>MERT 12001</td>
<td>COMPUTER-AIDED DESIGN</td>
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<td>MERT 12004</td>
<td>MANUFACTURING PROCESSES</td>
<td>3</td>
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<td>MERT 12005</td>
<td>PROPERTIES OF MATERIALS</td>
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<td>MERT 22003</td>
<td>COMPUTER-AIDED TOOL DESIGN</td>
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<td>STATICS</td>
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<td>MERT 22007</td>
<td>STRENGTH OF MATERIALS</td>
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<td>MERT 22012</td>
<td>FLUID POWER</td>
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<td>COMM 15000</td>
<td>INTRODUCTION TO HUMAN COMMUNICATION (KADL)</td>
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<tr>
<td>ENG 20002 or OTEC 26638</td>
<td>INTRODUCTION TO TECHNICAL WRITING BUSINESS COMMUNICATIONS</td>
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<tr>
<td>MATH 11010</td>
<td>ALGEBRA FOR CALCULUS (KMCR)</td>
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<tr>
<td>MATH 11012</td>
<td>INTUITIVE CALCULUS (KMCR)</td>
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MATH 11022 TRIGONOMETRY (KMCR) 3
OTEC 26636 PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS 1
UC 10001 FLASHES 101 1
Physics Elective A, choose from the following: 3-5
  PHY 12201 TECHNICAL PHYSICS I (KBS) (KLAB)
  PHY 13001 & PHY 13021 GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)
Physics Elective B, choose from the following: 3-5
  PHY 12202 TECHNICAL PHYSICS II (KBS) (KLAB)
  PHY 13002 & PHY 13022 GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)

Kent Core Composition 3
Kent Core Humanities and Fine Arts 3
Kent Core Social Sciences 3

Minimum Total Credit Hours: 62

Program Learning Outcomes
Graduates of this program will be able to:
1. Apply the knowledge, techniques, skills and modern tools of mathematics, science, engineering and technology to solve mechanical engineering technology problems that require limited application of principles but extensive practical knowledge.
2. Design solutions for well-defined mechanical engineering technology problems and assist with the design of systems, components or processes for solving broad mechanical engineering technology problems.
3. Apply written, oral and graphical communication in both technical and non-technical environments, and proficiently use technical reference material.
4. Conduct standard tests, measurements and experiments and analyze and interpret the results.
5. Function effectively as a member of a technical team.
6. Understand and commit to address professional and ethical responsibilities, including a respect for diversity.

Full Description
The Associate of Applied Science degree in Mechanical Engineering Technology provides students with knowledge and skills in the manufacturing areas related to computer-controlled equipment and integrated manufacturing. Students learn drafting, materials testing, robotics applications and computer-aided design (CAD) and computer-aided manufacturing (CAM) software for design and documentation.

The degree program articulates into Kent State's Bachelor of Science degree in Engineering Technology.