Automotive Technology

The Automotive Technology program in the College of Applied Sciences and Arts provides students with an opportunity to obtain a solid foundation of knowledge, experience and skills that will assist in job entry and career advancement in the automotive industry.

Current automotive trends indicate that the automobile will continue to experience changes that include expanded use of electronics and computerized controls for improving engine performance, fuel efficiency, on-board diagnostics, exhaust emissions, and passenger comfort and safety. These changes will require persons knowledgeable and highly skilled in specialized areas of automotive technology. This program offers the student an opportunity to specialize in chosen automotive subject areas and offers the opportunity to develop technical, communication and supervisory skills. The student should expect to spend about $1,500 for a required basic tool kit consisting of metric tools and a digital multimeter.

The Automotive Technology program has achieved master certification by the National Institute for Automotive Service Excellence (ASE). Instruction is offered in all eight areas of ASE certification—engine repair, automatic transmissions/transaxles, manual drive trains and axles, suspension and steering, brakes, electrical/electronic systems, heating and air conditioning, and engine performance. Students are encouraged to complete the certification process by taking the ASE certification exams.


Bachelor of Science Degree

The Bachelor of Science Degree in Automotive Technology is designed to provide an educational environment for students to acquire the professional, research, and technical skills necessary for success in the automotive and related industries. The degree provides theoretical and practical hands-on application of knowledge through a combination of automotive technical courses and automotive business/management courses, along with computing and communication courses. The flexibility of the curriculum accommodates the needs of both incoming freshmen and transfer students. Students have the option of focusing on multiple areas of emphasis, earning a minor, and possibly earning dual degrees. Students can adjust their focus in areas such as: automotive technical, automotive business operations, automotive management, automotive technical education, marketing, and management.

The program can strengthen previous automotive training and the Capstone Option is available to qualified A.A.S. graduates entering the Automotive Technology bachelor's degree program as explained in this catalog.

Automotive and truck manufacturers, component manufacturers and suppliers, government agencies, insurance organizations, educational institutions, training and curriculum organizations, and service providers are seeking four-year automotive technology graduates. The number of job titles in the area of automotive technology reflects the nature of a diverse and expanding field. Job titles include field service engineer, technical assistance specialist, serviceability engineer, district parts/service manager, customer support manager, automotive instructor, account manager, fleet manager, service advisor, dealership service manager, technical training specialist, district sales manager, field executive, technical writer, and
product engineer. These positions require a four-year degree with skills in communications, management and consumer relations as well as technical knowledge.

Admission to Automotive Technology

Those interested in applying to the Automotive Technology program are encouraged to begin the application process approximately one year in advance. Admission requirements to the applicant pool are the same as those to the University. After acceptance to the University and indicating Automotive Technology as the primary intended major, students are placed into the Automotive Technology Applicant Pool. No separate application is needed. Additional review of applicants will occur on predetermined dates for possible acceptance into the Automotive Technology major. The review criteria and dates are available from the Department and are on the Department’s website: automotive.siu.edu.

The Automotive Technology Program welcomes students with AAS degrees in Automotive Technology from regionally accredited colleges. These students may qualify for the Capstone Option (see Capstone section) which reduces the overall Core Curriculum requirements necessary for the bachelor’s degree. If you have questions about what classes are needed to qualify for the Capstone Option, contact your community college advisor and the Automotive Technology program.

Internship Programs

Automotive Technology majors can participate in paid internship experiences and may be able to earn credit toward graduation. Opportunities occur during all semesters (including the summer term), with some programs available for two sequential terms. Internship sites are situated in various locations throughout the United States. Internship opportunities may be available with Fiat Chrysler Automobiles, Cummins Inc., Toyota Motor Sales, U.S.A., Inc., Eaton Corporation, General Motors Company, Robert Bosch Corporation, Ford Motor Company, Sherwin-Williams Automotive Finishes, Motors Insurance Corporation, General Services Administration (GSA) of the Federal Government, and other various automotive businesses.

Bachelor of Science Degree in Automotive Technology

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum</td>
<td>41</td>
</tr>
<tr>
<td>Requirements for Major in Automotive Technology</td>
<td>79</td>
</tr>
<tr>
<td>Category II: Automotive Technology 100 and 200 level courses; (or Approved Substitutions) Select from: AUT 120, AUT 150, AUT 170, AUT 180, AUT 215, AUT 216, AUT 240, AUT 250 and AUT 280</td>
<td>36</td>
</tr>
<tr>
<td>Category III: Automotive Technology 300 and 400 technical courses; (or Approved Substitutions) Select from: AUT 330, AUT 340, AUT 355, AUT 360, AUT 370, AUT 390, AUT 440, AUT 445, AUT 450, AUT 480, AUT 490</td>
<td>15</td>
</tr>
<tr>
<td>Category IV: Business/Management Courses (or Approved Substitutions)</td>
<td>15</td>
</tr>
<tr>
<td>Group I: Select one course from the following: AUT 310, TRM 316</td>
<td></td>
</tr>
</tbody>
</table>
Degree Requirements

<table>
<thead>
<tr>
<th>Group II: Select one course from the following: AUT 335</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group III: Select one course from the following: AUT 325, MGMT 304, MGMT 350, TRM 364</td>
</tr>
<tr>
<td>Group IV: Select two courses from the following: AUT 345, AUT 435, AUT 485, ACCT 210, FIN 208, FIN 270, FN 280, MKTG 304, MKTG 305, MKTG 350, PSYC 323, TRM 361, TRM 362, TRM 383</td>
</tr>
<tr>
<td>Category V: Support Courses selected from the following:</td>
</tr>
<tr>
<td>Any Category III course not previously taken. Any Category IV Group III or Group IV course not previously taken. Credit from AUT 320, AUT 420, AUT 430, AUT 475, MGMT 318, MGMT 341, MKTG 329, MKTG 336, MKTG 401, TRM 361, TRM 362, WED 460, WED 462, WED 463 Or Department approved substitutions</td>
</tr>
</tbody>
</table>

Total ³ 120

1 Capstone= 30; UCC= 41.
2 Consent of department.
3 Note: Credit from all areas must total a minimum of 42 hours of 300- and 400-level courses. Degree requires a total of 120 credit hours.

Automotive Technology Courses

Automotive Technology Faculty

Behrmann, Michael, Associate Professor and Chair, M.S.Ed., Southern Illinois University Carbondale, 1995.
Boyle, Sean M., Associate Professor, M.S.Ed., Southern Illinois University Carbondale, 1996.
Collard, Rodney, Associate Professor, M.S.Ed., Southern Illinois University Carbondale, 1990.
Croxell, Andrew, Assistant Professor, M.S.Ed., Southern Illinois University Carbondale, 2010.
Gilbert, David W., Associate Professor, Ph.D., Southern Illinois University Carbondale, 2006.
Grant, Todd, Assistant Instructor, B.S., Southern Illinois University Carbondale, 1987.
Heisner, Blaine, Assistant Professor, M.S.Ed., Southern Illinois University, 2010.
Janello, Tim, Associate Professor, M.S.Ed., Southern Illinois University Carbondale, 2008.
Meckfessel, Kent E., Assistant Instructor, B.S, Southern Illinois University Carbondale, 1996.
Pickerill, Ken, Assistant Instructor, M.S.Ed., Indiana State University, 2008.
Simpson, Jerry, Assistant Professor, Emeritus, M.S., Colorado State University, 1966.
Tate, Ralph F., Associate Professor, M.S., Air Force Institute of Technology, 1991.

Last updated: 09/15/2016

Southern Illinois University
Carbondale, IL 62901
Phone: (618) 453-2121

Catalog Year Statement:
Students starting their collegiate training during the period of time covered by this catalog (see bottom of this page) are subject to the curricular requirements as specified herein. The requirements herein will extend for a seven calendar-year period from the date of entry for baccalaureate programs and three years for associate programs. Should the University change the course requirements contained herein subsequently, students are assured that necessary adjustments will be made so that no additional time is required of them.