



# Pittsburg State University

## Department of **AUTOMOTIVE TECHNOLOGY**

Degree: **Bachelor of Applied Science (2+2 degree)**

Major: **Technology (Automotive Technology)**

Emphasis: **Diesel/Heavy Equipment (Caterpillar ThinkBIGGER)**

As of Fall 2020

### Business Support Courses

#### Business Courses (9 hours)

MGT 330: Management and Organizational Behavior	3
MGMKT 444: Legal and Social Environment of Business	3
MGT 540: Human Resources Management	3
<b>OR</b> MKTG 330: Principles of Marketing	3

### Diesel/Heavy Equipment (Caterpillar ThinkBIGGER) Emphasis Courses

#### Technology Management (Organization and Leadership)

AT 580: Dealership Service Operations	3
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#### (Select 9 hours from below)

TM 606: Industrial Supervision	3
AT 687: Corporate Sales, Service and Parts Management	3
AT 695: Corporate Service and Parts Management	3
EST 293: Introduction to Industrial Safety	3
EST 296: Introduction to Construction Safety	3
MFGET 405: Quality Control	3

*Or an approved substitute safety or management course*

### Technical Specialization, Support and Electives

#### Technical Specialization

*Technical courses from Caterpillar ThinkBIG Associate Degree (40 hours)*

#### Automotive Technical Support Courses (12 hours)

AT 300: Automotive Internship	3
AT 399: Professional Development in the Transportation Industry	2
AT 621: Advanced Diesel Electronics and Diesel Engine Lab	3
AT 654: Advanced Hydraulic Systems and Off Highway Systems	3
AT 699: Senior Seminar	1

#### Technical Electives (Select 12 hours from below)

AT 400: Automotive Internship	3
AT 416: Fluid Power	3
AT 418: Failure Analysis	3
AT 519: Mobile Fuels, Lubricants and Alternate Fuels	3
AT 630: On Highway Systems	3
AT 642: Agricultural Equipment and Powertrains	3
AT 650: Dynamometer and Performance Testing	3

*AT 300 and AT 400 should be taken for 3 hours each*

### General Education Requirements

#### Basic Skills (9 hours)

ENGL 101: English Composition	3
ENGL 299: Introduction to Research Writing	3
or ENGL 301: Technical/Professional Writing	3
COMM 207: Speech Communication	3
<i>COMM 207 as well as ENGL 301 can have other courses substituted in their place.</i>	

#### Behavioral, Social, History, & Political Studies (6 hours)

PSYCH 155: General Psychology	3
SOC 100: Introduction to Sociology	3
or POLS 101: U.S. Politics	3
or HIST 201: American History to 1865	3
or GT 350: Technology and Civilization	3
or TM 350: Societal Influence of Technology	3
or Social Science and/or Political Studies Elective	3

#### Mathematics (6 hours)

MATH 113: College Algebra	3
or MATH 114: Elements of Technical Analysis	3
MATH 143: Elementary Statistics	3
<i>MATH 114 and/or MATH 143 can be substituted by another mathematics course.</i>	

#### Sciences (Minimum of 6 hours)

BIOL 113: Environmental Life Science	4
PHYS 171: Physical Science	3
PHYS 172: Physical Science Laboratory	1
<i>BIOL 113 can be substituted by another natural science course.</i>	
<i>PHYS 171 can be substituted by another physical science course.</i>	

#### Producing and Consuming (3 hours)

ACCTG 201: Financial Accounting	3
<i>or approved business substitute</i>	3

#### Fine Arts (Select one) (3 hours)

ART 178: Introduction to the Visual Arts	3
COMM 105: Performance Appreciation	3
COMM 205: Performance Studies	3
HHP 151: Dance Appreciation	3
MUSIC 120: Music Appreciation	3
<i>Approved Humanities (e.g. Ethics)</i>	3

#### Cultural Studies (Select one) (3 hours)

GEOG 300: Elements of Geography	3
GEOG 304: Human Geography	3
<i>Approved elective from cultural studies</i>	3

**Total hours required . . . . . 120**

NOTE: The information contained herein is intended to be used for the planning of a student's academic program and does not constitute a contract. While this guide was prepared with the latest information, courses, graduation requirements, and curricula are subject to change.

When a student attains 85 semester hours of credit (including current enrollment) the student must apply for a degree check in the Office of the Registrar (Degree Checking Section), Room 102 Russ Hall.

MINIMUM GENERAL REQUIREMENTS: The minimum requirements for graduation include 120 semester hours of which 60 hours must be from a four-year university. In addition, 45 semester hours must be upper division and 30 hours in residence at PSU (including 24 of the last 30). Minimum GPA for non-education degree is 2.0 overall [2.0 in major], secondary education degree is 2.5 overall [2.75 in major], and early/late childhood/unified degree is 2.80 overall [3.0 in major]. A minimum GPA of 2.0 in any major and in residence coursework is required. General Education and all degree requirements are provided in the online catalog. Refer to individual departments for specific requirements.