



# Pittsburg State University College of Technology Program Guide

Degree: Bachelor of Applied Science  
 Major: Technology (Automotive Technology)  
 Emphasis/Option: Automotive/Power Mechanics Emphasis  
 Minor (if required):

As of Fall 2016

## Business Support Courses

### Business Courses

|   |   |
|---|---|
| MGMKT 327: Management and Organizational Behavior .....   | 3 |
| MGMKT 444: Legal and Social Environment of Business ..... | 3 |
| MGMKT 629: Human Resource Management .....                | 3 |
| or MGMKT 330: Principles of Marketing .....               | 3 |

|  |   |
|--|---|
| AT 635: Advanced Engine performance .....          | 3 |
| AT 641: Construction Equipment Systems .....       | 3 |
| AT 650: Dynamometer and Performance Testing .....  | 3 |
| AT 662: Automotive Finishing and Refinishing ..... | 3 |

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

## Automotive/Power Mechanics Emphasis Courses

### Technology Management (Organization and Leadership)

|  |   |
|--|---|
| AT 690: Dealership and Manufacturer Management ..... | 3 |
|--|---|

### (Select 9 hours from below)

|   |   |
|---|---|
| TM 606: Industrial Supervision .....                | 3 |
| AT 695: Corporate Service and Part Management ..... | 3 |
| AT 697: Corporate Sales Management .....            | 3 |
| EST 393: Introduction to Industrial Safety .....    | 3 |
| EST 396: Introduction to Construction Safety .....  | 3 |
| MFGET 405: Quality Control .....                    | 3 |

or approved substitute safety or management course

## Technical Specialization, Support and Electives

### Technical Specialization

- Technical courses from 2-Year associate degree (40 hours)

### Automotive Technical Support Courses

|  |     |
|--|-----|
| AT 300: Automotive Internship (____) .....           | 3-6 |
| AT 399: Automotive Professional Development .....    | 2   |
| AT 615: Engine Performance Laboratory .....          | 3   |
| AT 679: Future Power for Automobile Technology ..... | 3   |
| AT 699: Automotive Senior Seminar .....              | 1   |

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

|   |     |
|---|-----|
| AT 301: Fundamentals of Collision Technology .....                | 3   |
| AT 314: Manual Transmission and 4WD Mechanisms .....              | 3   |
| AT 400: Automotive Internship (____) .....                        | 3-6 |
| AT 414: Automatic Transmissions .....                             | 3   |
| AT 416: Fluid Power .....   | 3   |
| AT 418: Failure Analysis .....                                    | 3   |
| AT 462: Structural and Non-Structural Analysis .....              | 3   |
| AT 464: Damage Analysis, Estimating and Insurance Appraisal ..... | 3   |
| AT 510: Automotive Climate Systems .....                          | 3   |
| AT 519: Mobile Fuels, Lubricants and Alternate Fuels .....        | 3   |
| AT 611: Diesel Engine Fundamentals .....                          | 3   |
| AT 615: Engine Performance Laboratory .....                       | 3   |
| AT 630: On Highway Systems .....                                  | 3   |

## GENERAL EDUCATION REQUIREMENTS

### Basic Skills

|      |         |                                    |   |
|------|---------|------------------------------------|---|
| ENGL | 101     | English Composition                | 3 |
| ENGL | 299     | Introduction to Research Writing   | 3 |
|      | or ENGL | 301 Technical/Professional Writing | 3 |
| COMM | 207     | Speech Communication               | 3 |

COMM 207 as well as ENGL 301 can have other courses substituted in their place.

### Behavioral, Social, History & Political Studies

|       |   |                                      |   |
|-------|---|--------------------------------------|---|
| 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

|      |         |                                    |   |
|------|---------|------------------------------------|---|
| MATH | 113     | College Algebra                    | 3 |
|      | or MATH | 114 Elements of Technical Analysis | 3 |
| MATH | 143     | Elementary Statistics              | 3 |

MATH 114 as well as MATH 143 can be substituted by another mathematics course.

### Sciences *(Minimum of 6 hours)*

|      |     |                             |   |
|------|-----|-----------------------------|---|
| BIOL | 113 | Environmental Life Science  | 4 |
| PHYS | 171 | Physical Science            | 3 |
| PHYS | 172 | Physical Science Laboratory | 1 |

BIOL 113 can be substituted by another natural science course.

PHYS 171 can be substituted by another physical science course.

### Producing and Consuming

|       |                                 |                      |   |
|-------|---------------------------------|----------------------|---|
| ACCTG | 201                             | Financial Accounting | 3 |
|       | or Approved business substitute |                      | 3 |

### Fine Arts *(Select one)*

|       |                                    |                                 |   |
|-------|------------------------------------|---------------------------------|---|
| 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 |
|       | Approved Humanities (e.g., Ethics) |                                 | 3 |

### Cultural Studies *(Select one)*

|      |   |                       |   |
|------|---|-----------------------|---|
| GEOG | 300                                     | Elements of Geography | 3 |
| GEOG | 304                                     | Human Geography       | 3 |
|      | Approved elective from cultural studies |                       | 3 |

### Notes

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 124 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 minor 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.