

Marshall University

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Recommendations

Faculty Senate

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10-5-2020

### SR 20-21-01 CC

Marshall University Faculty Senate

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# University Curriculum Committee RECOMMENDATION

SR 20-21-01 CC

Recommends approval of the listed **UNDERGRADUATE COURSES ADDITIONS** in the following college and/or schools/programs:

## College of Aviation

### Course Name Additions and Rationales:

#### AMT 101 Introduction to Aviation Maintenance

**Rationale:** This course provides an introduction to aviation maintenance, including topics related to aircraft features, nomenclature, materials, hardware and systems, and principles of physics and flight.

#### Curriculum:

#### AMT 102 Aircraft Regulations & Publications

**Rationale:** This course provides a review of the Federal Aviation Administration's regulations, maintenance publications, weight and balance procedures, and the interpretation of technical drawings, charts, and graphs.

#### Curriculum:

#### AMT 103 Aviation Technical Skills Practices

**Rationale:** The course reviews proper use of power tools, shop safety, fluid lines and fittings, cleaning and corrosion control, and the interpretation of various non-destructive inspection methods

#### Curriculum:

#### AMT 105 Aircraft Utility Systems

**Rationale:** The course reviews airframe ice and rain control, fire protection, and fuel systems as well as doors, windows, emergency equipment, cargo loading, galley and lavatory systems, and passenger service units.

#### Curriculum:

#### AMT 109 Aviation Electronics

**Rationale:** This course examines the fundamental principles of electronics as applied to aircraft electrical systems. Specific topics covered include AC/DC, series-parallel circuits, circuit analysis theorems, transistors, digital theory, and devices.

#### Curriculum:

#### AMT 110 Aircraft Power Generation & Distribution Systems

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**Rationale:** This course examines AC and DC power generation systems, voltage regulation, power distribution, and circuit protection devices used in aircraft. Students will learn how to inspect and repair these components.

### **Curriculum:**

#### **AMT 201 Reciprocating Engines & System**

**Rationale:** This course is a study of the theory of operation of reciprocating engines and their systems with particular emphasis on the principles of operation, nomenclature, construction, and design.

### **Curriculum:**

#### **AMT 202 Aircraft Sheet Metal Structures**

**Rationale:** This course is a study of the theory of operation of reciprocating engines and their systems with particular emphasis on the principles of operation, nomenclature, construction, and design.

### **Curriculum:**

#### **AMT 203 Reciprocating Engine Maintenance & Return to Service**

**Rationale:** This course examines AC and DC power generation systems, voltage regulation, power distribution, and circuit protection devices used in aircraft. Students will learn how to inspect and repair these components.

### **Curriculum:**

#### **AMT 204 Reciprocating Engine Maintenance & Return to Service**

**Rationale:** This course is a study of propellers and their components and their operation with special attention given to the principles of operation, nomenclature, construction, and system design.

### **Curriculum:**

#### **AMT 205 Turbine Engines & Systems**

## **University Curriculum Committee RECOMMENDATION**

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**Rationale:** This course reviews the theory of operation of turbine engines and their systems with an emphasis on the principals of operation, nomenclature, construction, and system design.

**Curriculum:**

### **AMT 206 Aircraft Fluid Power & Landing Gear Systems**

**Rationale:** This course provides a comprehensive review of aircraft hydraulic, pneumatic, fuel, and landing gear systems and their routine inspection and maintenance, and repair.

**Curriculum:**

### **AMT 207 Turbine Engine Maintenance & Inspection**

**Rationale** This course emphasizes the principles of operation, nomenclature, construction, and system design of turbine engines, as well as their maintenance, inspection, overhaul, repair, troubleshooting.

**Curriculum:**

### **AMT 208 Cabin Atmosphere Control Systems**

**Rationale:** This course provides a detailed review of aircraft heating, oxygen, and pressurization systems for Business, Commercial, and Transport aircraft systems.

**Curriculum:**

### **AMT 209 Airframe Inspection & Flight Control Systems**

**Rationale:** The focus of this course includes inspections, preventative maintenance, and scheduled maintenance, rebuilding, and alteration of flight control systems, including ailerons, flaps, rudders, and elevators.

**Curriculum:**

### **AMT 210 Non-Metallic Structures**

**Rationale:** Students will learn how to work with wood, fabric, plastic, and advanced aircraft composites to ensure an aircraft remains airworthy.

**Curriculum:**

### **AMT 211 Aircraft Avionics & Information Systems**

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**Rationale:** A review of aircraft and power plant communications, navigation, and instrument systems. Students will learn to test and repair or replace components of avionics and information systems.

**Curriculum:**

**AMT 215 Certification Test Preparation**

**Rationale:** This course will help students to prepare for Federal Aviation Administration tests.

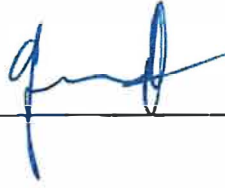
**Curriculum:**

**FACULTY SENATE CHAIR:**

**University Curriculum Committee  
RECOMMENDATION**

SR 20-21-01 CC

APPROVED BY THE  
FACULTY SENATE: \_\_\_\_\_



DATE: 10/5/20

DISAPPROVED BY THE  
FACULTY SENATE: \_\_\_\_\_

DATE: \_\_\_\_\_

**UNIVERSITY PRESIDENT:**

APPROVED: \_\_\_\_\_



DATE: 10-5-2020

DISAPPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

**COMMENTS:** \_\_\_\_\_

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NOTE: Recommendations should be sent to the Faculty Senate office via email. Recommendations longer than one page or those with attachments are to be sent in final format with this as a cover page. Any incomplete recommendations or those requiring extensive formatting changes will be returned to the recording secretary/committee.