

# Aviation Technology—Maintenance Management Major Degree Plan

Aviation Technology—Maintenance Management graduates are qualified to enter the work force in many rewarding career fields in aviation. Employment opportunities exist in target industries such as major airline carrier maintenance management, commuter airline maintenance management, fixed-base operator (FBO) maintenance, and Federal Aviation Administration (FAA) aircraft inspection after some field experience. This major has a great deal of depth in general maintenance, which applies to most industrial maintenance operations. Although the major's focus is aviation, the knowledge and skills gained can be used in other fields.

The suggested semester schedule for **Aviation Technology—Maintenance Management** is as follows:

## Freshman Year (32 credits)

### Fall Semester (17 credits)

AV 1130 Flight Principles.....	2
AV 1140 Aircraft Components and Principles.....	2
AV 1170 Aircraft Structures.....	3
AV 2180 Aircraft Hydraulic and Pneumatic Systems.....	2
AV 2200 Aircraft Hydraulics and Pneumatic Systems Lab.....	1
MATH 1050 (QL) <sup>2</sup> College Algebra.....	4
University Studies Breadth American Institutions (BAI) course <sup>4,5</sup> .....	3

### Spring Semester (15 credits)

AV 1240 Aircraft Maintenance.....	3
AV 2170 Aircraft Systems.....	2
AV 2190 Aircraft Systems Lab.....	1
ETE 1030 <sup>4</sup> Material Processing Systems.....	3
ETE 2300 (QI) <sup>2</sup> Electronic Fundamentals.....	4
MATH 1060 Trigonometry.....	2

## Sophomore Year (32 credits)<sup>1</sup>

### Fall Semester (15 credits)

AV 2100 Aircraft Reciprocating Powerplants and Accessories.....	3
AV 2110 Aircraft Reciprocating Powerplants and Accessories Lab.....	3
ETE 1200 <sup>4</sup> Computer-Aided Drafting and Design.....	3
ENGL 1010 (CL1) <sup>4,5</sup> Introduction to Writing: Academic Prose.....	3
MATH 1100 (QL) <sup>4,5,7</sup> Calculus Techniques.....	3

### Spring Semester (17 credits)

AV 1100 <sup>4</sup> The Aviation Profession.....	1
AV 2140 Aircraft Turbine Powerplants and Maintenance Operations....	3
AV 2150 Aircraft Turbine Powerplant Maintenance Operations Lab.....	3
AV 2430 Aircraft Electrical Systems and Components.....	2
AV 2440 Aircraft Electrical Systems Laboratory.....	2
ENGL 2010 (CL2) <sup>4,5</sup> Intermediate Writing: Research Writing in a Persuasive Mode.....	3
University Studies Breadth Life Sciences (BLS) course <sup>4,5</sup> .....	3

## Junior Year (32 credits)

### Fall Semester (16 credits)

AV 3280 Advanced Turbine Engines.....	2
AV 4280 <sup>4</sup> Airline Management.....	3
STAT 2300 (QL) <sup>2,5</sup> Business Statistics.....	4
Elective course(s).....	4
Technical Elective course <sup>6</sup> .....	3

### Spring Semester (16 credits)

AV 2420 FAA Regulations, Records, and Certification.....	2
AV 3610 AeroTechnology Design I.....	1
AV 4490 Human Factors in Aviation Safety.....	3
MGT 3110 (DSS) <sup>3,4,5,7,8</sup> Managing Organizations and People.....	3
PHYS 1800 (BPS) <sup>7</sup> Physics of Technology.....	4
University Studies Breadth Humanities (BHU) course <sup>4,5</sup> .....	3

## Senior Year (30 credits)

### Fall Semester (15 credits)

AV 3120 Aviation Law.....	3
AV 4610 (CI) AeroTechnology Design II.....	3
MGT 3710 <sup>3,4,5,8</sup> Developing Team and Interpersonal Skills.....	3
University Studies Breadth Creative Arts (BCA) and Breadth Social Sciences (BSS) courses <sup>4,5</sup> .....	6

### Spring Semester (15 credits)

AV 4200 Composite Manufacturing Processes and Repair.....	3
AV 4620 (CI) AeroTechnology Design III.....	3
University Studies Depth Humanities and Creative Arts (DHA) course <sup>4,5</sup> .....	3
Technical Elective courses <sup>6</sup> .....	6

Students must complete a total of 40 credits of stipulated upper-division coursework.

<sup>1</sup>Completion of the Computer and Information Literacy (CIL) exams with passing grades is required by the end of the sophomore year, because it is a prerequisite for all AV classes numbered 3000 and above.

<sup>2</sup>A Math ACT score of 23 or higher is required to enroll in MATH 1050. If Math ACT score is between 18 and 22, student should enroll in MATH 1010 first. MATH 1050 is a prerequisite for STAT 2300 and ETE 2300.

<sup>3</sup>Students must have a cumulative GPA of at least 2.67 and have professional status to be admitted to these Huntsman School of Business courses.

<sup>4</sup>Due to teaching load constraints, these courses may be offered during semesters other than those listed here. Check with the department regularly for possible changes. Most of these classes are offered only once each year.

<sup>5</sup>These courses may be taken during summer semester to allow for more reasonable course loads during the academic year.

<sup>6</sup>Students must take 9 credits of related technical electives which must be in upper-division courses (3000-level and above) chosen from the following list: AV 3010, 4250, 4300, 5400; MGT 3510<sup>8</sup>, 3520<sup>8</sup>, 3700, 3810<sup>8</sup>, 3820<sup>8</sup>, 4630<sup>8</sup>, 4720.

<sup>7</sup>PHYS 1800 fulfills the University Studies Breadth Physical Sciences (BPS) requirement. MGT 3110 fulfills the University Studies Depth Social Sciences (DSS) requirement. MATH 1100 fulfills the University Studies Exploration requirement.

<sup>8</sup>These courses can be applied toward a Management Minor.