

AIR FORCE JUNIOR ROTC COURSES

Career Pathway: Military and Leadership
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<i>Pathway Requirements: Must take complete 3 courses</i>			
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<i>Aerospace Science I</i>	<i>Aerospace Science II</i>	<i>Aerospace Science III</i>	<i>Aerospace Science IV</i>
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AFJROTC is not a recruiting program for the military services. There is absolutely no military commitment for students taking AFJROTC courses.

The objectives of the Air Force Junior ROTC program are to educate and train high school cadets in citizenship; promote community service; instill responsibility, character, and self-discipline; and provide instruction in air and space fundamentals.

To reinforce what students learn in the classroom, cadets may participate in many in-school and outside activities such as field trips to military bases, aerospace facilities and industries, museums, and civilian airports. Cadets also participate in parades, summer leadership schools, drill team competitions, orienteering, military balls, honorary academic groups, and many school and community support activities.

Air Force Junior ROTC courses consist of 40% Academics, 40% Leadership, and 20% Wellness Activities. All students must wear the official Air Force uniform at least one day each week and maintain Air Force grooming standards when wearing the uniform. Students are issued the uniform at no cost.

Students:

- may satisfy requirement for P.E. credit with Principal's approval.
- may earn college credit for completing AFJROTC courses.
- may earn ground school portion of private pilot's license

After completing 4 years of AFJROTC the student will be recognized by the Kentucky Office of Career and Technical education (OCTE) as an approved career pathway within the Government and Public Safety career cluster as well as earn advanced rank and improved scholarship opportunities if they choose a military career path.

580134 AFJROTC 1

(Aerosp. Sci I – Aviation History)

Suggested Grade Level: 9-12

Prerequisite: None

Credit: 1

580135 AFJROTC 2

(Aerosp. Sci II – The Science of Flight)

Suggested Grade Level: 10-12

Prerequisite: AFJROTC I and/or Instructor Approval

Credit: 1

580136 AFJROTC 3

(Aerosp. Sci III – Exploration of Space)

Suggested Grade Level: 11-12

Prerequisite: AFJROTC I and II and/or Instructor Approval Credit: 1

580137 AFJROTC 4

(Aerosp. Sci IV – Principles of Management)

Suggested Grade Level: 12

Prerequisite: AFJROTC I, II, & III and/or Instructor Approval

Credit: 1

DUAL CREDIT/COLLEGE COURSES

Any student wishing to enroll in dual credit courses through the ECU Now program, must have a GPA of 3.0 and a minimum ACT score of 18 in English, 19 in Mathematics, 20 in Reading, and composite of 21 at the time of applying for the program. Applications are online at <http://dualcredit.ecu.edu>. Students should return a portion of the application to the counselor's office before the registration deadline. See the Madison Southern Website for more information. *** A cost may be associated with a dual credit class.

On-Site Dual Credit Class:**MAT114 - College Algebra (EQU Dual Credit)****MAT122 - Pre-Calculus (EQU Dual Credit)**

Grade Level: 11-12

Prerequisite: EQU Admission, meet EQU Now

Requirements, ACT Math Score of 22,

recommended by principal or guidance counselor

Credit: .5 each for High School Math and 3 College

Hours

MAT 110 - Applied Math (BCTC Dual Credit)**MAT 150 – College Algebra (BCTC Dual Credit)**

Grade Level: 12

Credit: .5 each for High School Math and 3 College

Hours

230196 ENG 101 (EQU Dual Credit)**230197 ENG 102 (EQU Dual Credit)**

Grade Level: 11- 12

Prerequisite: EQU Admission, meet EQU Now

Requirements, recommended by principal or
guidance counselor

Credit: .5 each for High School English and 3

College Hours

2301960 ENG 101 (BCTC Credit)**2301970 ENG 102 (BCTC Credit)**

Grade Level: 11 – 12

Prerequisite: SCC Admission, meet SCC Now

Requirements, recommended by principal or
guidance counselor

Credit: .5 each for High School English and 3

College Hours

**Senior Year English for those already having
ENG 101/102 credit:****ENG210W – Enjoying Literature (EQU) or ENG
161 (BCTC)****CMS100 – Into to Communications (EQU)****Other Dual Credit:***Depends on student and course preference. See
counseling office for packet of general elective
requirements.**Dual Credit opportunities also through Murray State
in the Ag Department.*

ENGLISH COURSES

Four sequential credits in English must successfully be completed in order to fulfill graduation requirements.

9 th	English 9 or Honors English 9
10 th	English 10 or Honors English 10
11 th	English 11, AP English III, or Dual Credit Class
12 th	English 12, AP English IV, or Dual Credit Class

Honors and advanced placement courses are more rigorous than the “regular” course. Consider the extra workload before registering for advanced classes.

230107 English 9

Suggested Grade Level: 9

Prerequisite: None

Credit: 1

230108 Honors English 9

Suggested Grade Level: 9

Prerequisite: Teacher recommendation and/or 3.0 in previous English class.

Credit: 1

230110 English 10

Suggested Grade Level: 10

Credit: 1

230111 Honors English 10

Suggested Grade Level: 10

Prerequisite: Teacher recommendation and/or 3.0 in previous High School English class.

Credit: 1

230113 English 11

Suggested Grade Level: 11

Credit: 1

230166 AP Language and Composition (AP English III)

Suggested Grade Level: 11

Prerequisite: Teacher recommendation and/or 3.0 in previous English class.

Credit: 1

230116 English 12

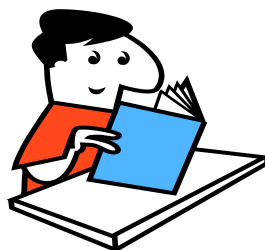
Suggested Grade Level: 12

Credit: 1

230167 AP Literature and Composition (AP English IV)

Suggested Grade Level: 12

Prerequisite: Teacher recommendation and/or 3.0 in previous English class.

Credit: 1 (*plus possible college credit*)*Dual Credit is also available.*

FINE ARTS DEPARTMENT

Students are required to earn 1 credit of band, art, music, drama or a combination of any of the subject matter before graduation.

**500710 Visual Art 1
(Fundamental of Art)**

Suggested Grade Level: 9-12
Prerequisite: None
Credit: 1

**500712 Art II -
Drawing/Painting**

Suggested Grade Level: 10-12
Prerequisite: Drawing/Painting
Credit: 1

**500713 Art II - Sculpture
(3-D Art)**

Suggested Grade Level: 10-12
Prerequisite: Art I
Credit: 1

500511 Intro to Theater

Suggested Grade Level: 9-10
Prerequisite: None
Credit: 1

500513 Adv Acting

Suggested Grade Level: 10 - 12
Prerequisite: Serious Interest in
Acting
Credit: 1

500960 Music – Choir 1

Suggested Grade Level 9-10
Credit: 1

**500926 Honors Vocal
Ensemble**

Suggested Grade Level 10-12
Credit: 1

500627 Mixed Chorus

Suggested Grade Level 10 - 12
Credit: 1

**500627VM - Individual
Technique – Vocal Music**

Suggested Grade Level 10 - 12
Credit: 1

5009130 Concert Band**500917 Symphonic Band**

Suggested Grade Level: 9-12
Prerequisites: 3 years of Middle
School Band or Permission
of Band Director
Credit: 1

2833 Percussion**Techniques/Instrumental
Ensemble**

Suggest Grade Level: 9-12
Prerequisites: Active in the
Music Program or Permission of
Band Director
Credit: 1

**500111 Hist/Appreciation of
Visual Performing Arts**

Suggested Grade Level: 9-12
Credit: 1

FOREIGN LANGUAGE

It is recommended that students planning to enroll in a college or university need to plan to earn two credits in a foreign language. *It is highly recommended that students take these courses in consecutive years. Foreign Language is not a MSHS Graduation requirement.* (Other foreign languages may be available online with principal approval.)

161108 Spanish I

Suggested Grade Level: 9-12

Prerequisite: None

Credit: 1

161109 Spanish II

Suggested Grade Level: 10-12

Prerequisite: Spanish I

Credit: 1

HEALTH & PHYSICAL EDUCATION DEPARTMENT

One half credit of Physical Education (PE 1) and one half credit of Health are required for graduation. One full year of JROTC will meet the PE requirement.

340133 – Health

Suggested Grade Level: 9

Prerequisite: None

Credit: .5

340222 P.E. IV - Weightlifting

Suggested Grade Level: 10-12 ;

Elective Credit: .5 or 1 (may be repeated)

340216 PE 1

Suggested Grade Level: 9

Prerequisite: None

Credit: .5

MATHEMATICS

Students must be enrolled in a Math class each year of high school and successfully complete 4 credits of defined sequences of classes for graduation.

9th	Algebra I or Honors Algebra I
10th	Geometry or Honors Geometry
11th	Additional Math Elective <i>(Recommended: Algebra II)</i>
12th	Additional Math Elective

270304 Algebra I

Suggested Grade Level: 9-10

Prerequisite: None

Credit: 1

270305 Honors Algebra I

Suggested Grade Level: 9-10

Prerequisite: None

Credit: 1

270401 Geometry

Suggested Grade Level: 9-10

Suggested Prerequisite: Algebra I or Student

Contract

Credit: 1

270402 Honors Geometry

Suggested Grade Level: 9-10

Suggested Prerequisite: Must make A or B in Honors

Algebra I

Credit: 1

270311 Algebra II

Suggested Grade Level: 11-12

Prerequisite: Geometry

Credit: 1

270312 Honors Algebra II

Suggested Grade Level: 11-12

Suggested Prerequisite: Must make A or B in Honors

Geometry or A in Geometry.

Credit: 1

9899 Algebra III

Suggest Grade Level: 12

Pre-requisite: Intended for seniors not meeting career and college readiness benchmarks.

270501 Pre-Calculus

Suggested Grade Level: 11-12

Prerequisite: Honors Algebra II & Honors Geometry & Math ACT of 20 or better and a math score of a B or above

Credit: 1

270511 Calculus

Suggested Grade Level: 11-12

Prerequisite: Pre-Calculus or Teacher Approval

Credit: 1

270513 A. P. Calculus AB

Suggested Grade Level: 12

Prerequisite: Pre-Calculus or Teacher Permission

Credit: 1 *(plus possible college credit)**Enrolled in Calculus and will change on transcript when AP Test is taken in the spring**Dual Credit Math and CTE Math are Available*

SCIENCE COURSES

Three sequential credits in Science must successfully be completed in order to fulfill graduation requirements.

9th	Science Foundations /Hon Science Foundations
10 th – 11th	Biology/AP Biology
10th - 11th	Chemistry/ AP Chemistry or Physics/AP Physics/ or Conceptual Science

In addition to the three required courses, students are encouraged to take an elective which would broaden their perspectives and enhance their knowledge in the Science area.

303091 Science Foundations

Content includes Earth Science, Physical Science and Chemical Science

Suggested Grade Level: 9

Prerequisite: None

Credit: 1

304058 Hon Science Foundations

A more rigorous curriculum than Science Foundations

Suggested Grade Level: 9

Prerequisite: None

Credit: 1

304521 Chemistry

Suggested Grade Level: 10-12

Prerequisite: Science

Foundations

Credit: 1

304526 A.P. Chemistry

Suggested Grade Level: 11 – 12

Prerequisite: Strong Chemistry

Background and Teacher

Recommendation

Credit: 1 (*plus possible college credit*)

304821 Physics

Suggested Grade Level: 10-12

Prerequisite: Science

Foundations

Credit: 1

2533 AP Physics – Alg**304825 AP Physics – Calculus Mechanics**

Suggested Grade Level: 11-12

Prerequisite: Strong Math

Background

Credit: 1 (*plus possible college credit*)

302601 Biology

Suggested Grade Level: 10-11

Prerequisite: Science

Foundations and either Physics or Chemistry

Credit: 1

302646 A.P. Biology

Suggested Grade Level: 11-12

Prerequisite: Strong Chemistry

and Biological Background

Credit: 1 (*plus possible college credit*)

304620 Environmental Science

Suggested Grade Level: 10-12

Prerequisite: Biology

Credit: .5

303093 Conceptual Science

Suggested Grade Level: 11

Prerequisite: Biology

Credit: 1

SOCIAL STUDIES COURSES

Three sequential credits in Social Studies must successfully be completed in order to fulfill graduation requirements.

9 th	Introduction to Social Studies, or AP Government
10 th	Western (World) Civilization or AP European History
11 th	U.S History or AP US History

In addition to the three required courses, students are encouraged to take electives which will broaden their perspectives and enhance their knowledge in the Social Studies area.

459801 Integrated Social Studies

Suggested Grade Level: 9
 Prerequisite: None
 Credit: 1

451030 AP Government

Suggested Grade Level: 9
 Prerequisite: G/T Identification in Social studies and/or recommendation by teacher, administrator, or guidance counselor
 Credit: 1 *plus possible college credit*

450842 World Civilization

Suggest Grade Level: 10
 Prerequisite: Int Social Studies or AP Government
 Credit: 1

450844 AP European History

Suggest Grade Level: 10
 Credit: 1 *plus possible college credit*

450809 U.S. History

Suggested Grade Level: 11
 Prerequisite: Int Social Studies or AP Government and Western Civilization or AP World History
 Credit: 1

450814 A.P. U.S. History

Suggested Grade Level: 11-12
 Prerequisite: Int Social Studies or AP Government and World Civilization or AP World History and Teacher Approval
 Credit: 1 *plus possible college credit*

MSHS CAREER AND TECHNICAL EDUCATION COURSES

The Career and Technical Education Department is comprised of the following departments: Business & Marketing Education, Family and Consumer Science, Agricultural Science, , Bio-Medical Science, Computer Science and Career Education. Students wishing to receive a Vocational Area Completer Certificate must take 3 credits in a specific area.

FAMILY AND CONSUMER SCIENCE

Career Pathway: Family and Consumer Science		
Must Complete – 3 Credits		
Pathway	Courses	Test
Early Childhood Education	Early Lifespan Dev. – 1 st EDC 106/EDF 203 Child Dev Services I Child Dev Services II	CCCC Certification or End of Program Assessment

200223 Early Lifespan Development

Suggested Grade Level: 9-10
Credit: 1

2002610 Child Development Services I

Suggested Grade Level: 10-12
Prerequisite: None
Credit: 1

200262 Child Development Services II

Suggested Grade Level: 10 – 12
Prerequisite: Child Services I
Credit: 1

Dual Credit

EDC 106 EDC – Cultural Perspective

Suggested Grade Level: 11-12
Credit: .5

EDF 203 – Educational Foundations

Suggested Grade Level: 11-12
Credit: .5

BUSINESS AND MARKETING

Career Pathway: Business Marketing		
Must Complete 3 Credits		
Pathway	Courses	Test
E-Commerce	Digital Literacy - 9 th /10 th Microsoft Office Bus and Mktng Essential Multimedia Publishing Adv. Multimedia Pub	End of Program Assessment
Management & Entrepreneurship	Digital Literacy Bus and Mktng Essential Microsoft Office Personal Fin/Financial Lit	End of Program Assessment

060112 Digital Literacy

Suggested Grade Level: 9-12
Prerequisite: Prerequisite for other courses
Credit: 1

070750 Microsoft Office

Suggested Grade Level: 10-12
Credit: 1

60751 Multimedia Publishing I (Newspaper – Eagle Insight)

Suggested Grade Level: 10
Prerequisite: Teacher Approval - Applications Available
Credit: 1 (*may be repeated*)

060761 Multimedia Publishing II- (Newspaper - Eagles' Eye and Eagles' Edition)

Suggested Grade Level: 12
Suggested Prerequisite: Multimedia Publishing I
Credit: 1 (*may be repeated*)

AGRICULTURE

Career Pathway: Agriculture		
Must Complete 3 Credits		
Pathway	Courses	Test
Ag Power, Structural and Technical Systems	Intro to Ag – 1 st Ag Construction Skills Small Power Equipment Ag Struct and Design Ag Employment Skills	End of Program Assessment
Animal Science Systems	Intro to Ag – 1 st Animal Science Equine Science Small Animal Tech Adv Animal Science or Animal Tech Ag Employment Skills	End of Program Assessment
Environmental Science and Natural Resources Systems	Intro to Ag – 1 st Wildlife Resources Forestry Aquaculture Environmental Tech Ag Employment Skills	End of Program Assessment
Horticulture and Plant Science	Intro to Ag – 1 st Floral Design Greenhouse Tech Landscaping/Turf Mang. Ag Employment Skills	End of Program Assessment

**30715 Intro to Agricultural
Science & Technology (1st Course)**

Suggested Grade Level: 9-10

Prerequisite: None

Credit: 1

010121 Ag Employment Skills

Suggested Grade Level: 10-12

Recommended Prerequisite: Intro to Agi Sci

Credit: .5

**10241 Agricultural
Construction Skills**

Suggested Grade Level: 10-12

Prerequisite: Small Power

Credit: 1

10231 Small Power & Equipment

Suggested Grade Level: 10-12

Prerequisite: Intro. to Agri. Sci. & Technology

Credit: .5

10211 Agricultural Structures & Designs

Suggested Grade Level: 10-12

Prerequisite: Agr. Constr. Skills

Credit: .5

020501 Animal Science

Suggested Grade Level: 10-12

Prerequisite: Intro to Agr. Sci. & Technology

Credit: .5

020510 EquineSuggested Grade Level: 11-12; Prerequisite: Intro to
Agri. Sci & Technology, Animal Technology,
an/or Small Animal Science; ;

Credit: .5

020503 Small Animal Technology

Suggested Grade Level: 10-12

Prerequisite: Intro to Agri Sci & Tech, Animal
Technology, and/or Small Animal Science

Credit: .5

020504 Adv Animal Science*(Murray State University)*

Suggested Grade Level: 11-12

Prerequisite: College Qualifications met

Credit: .5

**020502 Animal Technology
(Non-College Adv. Animal Science)**

Suggested Grade Level: 10-12

Prerequisite: Animal Science

Credit: .5

30611 Wildlife Resources

Suggested Grade Level: 10-12

Prerequisite: Intro to Ag. Sci and Technology

Credit: .5

30511 Forestry

Suggested Grade Level: 10-12

Prerequisite: Intro to Ag Sci and Technology

Credit: .5

020520 Aquaculture

Suggested Grade Level: 10-12;

Prerequisite: Intro. to Agri. Sci.

Credit: .5

030609 Environmental Science Technology

Suggested Grade Level: 10-12

Prerequisite: Intro. to Agri. Sci.

Credit: .5

10621 Floral Design

Suggested Grade Level: 10-12

Prerequisite: None

Credit: .5

010611 Intro Greenhouse/Crop

Taught every other year

Suggested Grade Level: 10-12

Prerequisite: Intro to Agri Sci

Credit: 1

10641 Greenhouse Technology

Taught every other year opposite Intro

Suggested Grade Level: 10-12

Prerequisite: Intro to Agri. Sci.

Credit: 1

10631 Landscape & Turf Management

Suggested Grade Level: 10-12

Prerequisite: None

Credit: .5

HEALTH SCIENCES

Career Pathway: Biomedical		
Must Complete 3 Credits		
Pathway	Courses	Test
Biomedical Science	Princ of BioMedical Scien – 1st Human Body Systems BioMedical Innovations Medical Interventions	End of Program Assessment

170701 Principles of BioMedical Science

Suggested Grade Level: 9-10

Prerequisite: None

Credit: 1

170702 Human Body Systems

Suggested Grade Level: 10-11

Prerequisite: Principles of Bio-Medical Science

Credit: 1

170704 Biomedical Innovations

Suggested Grade Level: 11-12

Credit: 1

170703 Medical Interventions

Suggested Grade Level: 12

Credit: 1

110701 AP Computer Sci A

Suggested Grade Level: 10-12

Prerequisite: Java

Credit: 1 (*Counts as a Math Credit*)**110226 Project-Based Programming**

Pre-Requisite: Passed the AP CS-A exam

Credit: 1

*Dual Credit Available***CAREER EDUCATION***Must be completing 3rd Credit of Career Pathway and must have a job with appropriate paperwork completed.***030790 Agriculture Co-op****060107 Business Ed Co-op****200210 Childhood Education Co-op****080707 Marketing Co-op****110918 Information Tech Co-op****170550 – Career Work Exp (Bio-Med)**

Suggested Grade Level: 12; Prerequisite: Career Pathway Implementation/Completion and Health Insurance required; Credit: 1 or 2

COMPUTER SCIENCE

Career Pathway: Informational Technology		
Pathway	Courses	Test
Computer Science	Digital Literacy or Intro to Computer Science– 1 st JAVA AP Computer Science Principles AP Computer Sci A Proj-Based Programming CSC 160- Introduction to Web Programming CSC 170 Introduction to Game Programming	End of Program Assessment

110710 Intro to Computer Science

Suggested Grade Level: 9-10

Credit: 1

110205 JAVA

Suggested Grade Level: 9-10

(This course is not a 4th math elective, but a course in the computer science pathway and/or a general elective)

Credit : 1

110711 A. P. Computer Science Principles

Prerequisite: Algebra 1

Credit: 1

EXTRA COURSES AT MSSH

239141 Yearbook

Suggested Grade Level 11-12

Prerequisite: Application and Instructor approval

Credit: 1 (may be repeated)

2660 Leadership Dynamics

Grade Level: 12

Prerequisite: Transition Ready

Credit: 1

2555 Library Aide

Suggested Grade Level: 12

Prerequisite: College Class

Credit: No Credit

906010 Peer Mediation

Suggested Grade Level: 12

Prerequisite: Teacher