

10th to 11th (Junior) Elective Options

McDowell Scheduling Guide for 26/27

Course #	AEROSPACE SCIENCE (AFJROTC)	CREDIT VALUE	PREREQUISITE
R34010	Aerospace Science 3	1.00	Students must get approval from AFROTC Instructor(s) before enrollment. Students must wear uniform at least once a week & complete required community service, as well as, participate in marching & physical wellness/PT. This is a yearlong program and you have obligations even when you are not in class. (upon successful completion of AS1, AS 2, and AS 3 a Science Credit Awarded if Requested)
R44010	Aerospace Science 4	1.00	Students must get approval from AFROTC Instructor(s) before enrollment. Students must wear uniform at least once a week & complete required community service, as well as, participate in marching & physical wellness/PT. This is a yearlong program and you have obligations even when you are not in class. (upon successful completion of AS1, AS 2, and AS 3 a Science Credit Awarded if Requested)
Course #	BUSINESS	CREDIT VALUE	PREREQUISITE
B11010	Applied Digital Skills: Microsoft Office Essentials	0.50	N/A
B12010	Introduction to Business	0.50	N/A
B37010	Accounting 1	1.00	N/A
B47010	Accounting 2	1.00	"C" or better in Accounting 1
B49010	Business Law	0.50	N/A
B49510	Entrepreneurship	0.50	N/A
B48510	International Business and Ethics	0.50	N/A
B26010	Sports & Entertainment Marketing	0.50	N/A
B34010	Financial Literacy	0.50	Graduation Requirement
Course #	CENTER FOR PERFORMING ARTS	CREDIT VALUE	PREREQUISITE
P12010	Concert Band	1.00	Participation may be limited by audition for some instruments.
P11010	Guitar	0.50	N/A
P23010	Jazz Band	1.00	Director recommendation upon successful audition
P14110	McDowell Choral Project	1.00	N/A (Formally Mixed Chorus)
P25010	Orchestra	1.00	Students must have some experience playing a string instrument.
P11510	Piano	0.50	N/A
P24010	Wind Ensemble	1.00	Must have Director Recommendation
P16010	Performing Arts 1	1.00	N/A
P26010	Performing Arts 2	1.00	Successful completion of Performing Arts 1 and/or Director recommendation
P36010	Performing Arts 3	1.00	Successful completion of previous level and/or Director recommendation
P27510	Music Theory/Music History	1.00	Recommendation from Music Teacher
P34510	VOX Collective	1.00	Director recommendation upon successful audition
P50030	Arts Dual Enrollment	1.00	See School Counselor for Information (PRINCIPAL PRE-APPROVAL)
H17010	PE Dance	0.50	Meets Phy. Ed. Requirements in grades 10-12. Required Attire: Ballet, Tap, and Jazz Shoes
H28010	Popular Dance	0.50	Meets Phy. Ed. Requirements in grades 10-12.
Course #	COMPUTER SCIENCE (** NCAA Approved Course)	CREDIT VALUE	PREREQUISITE
D11010	Introduction to Computer Science	0.50	N/A
D12510	Foundations of Computer Programming 1	0.50	"C" or better in Algebra 1
D22510	Foundations of Computer Programming 2	0.50	"C" or better in Foundations of Computer Programming 1
D13510	Fundamentals of Cyber Security	0.50	N/A
D23010	Game Development and Programming	0.50	Recommendation from Foundations of Computer Programming 1 teacher
D16010	Smart Manufacturing	0.50	N/A
D21010	Web Design 1	0.50	N/A
D22010	Web Design 2 - Mobile App Development	0.50	"C" or better in Web Design 1
D32530	**AP® Computer Science Principles	1.00	"B" or better in Algebra 1
D33030	**AP® Computer Science A	1.00	AP® Computer Schedule Principles (AP Exam score of 3 or higher) and Algebra 2 (B or better)
D50030	Technology Dual Enrollment	1.00	See School Counselor for Information (PRINCIPAL PRE-APPROVAL)

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Course #	ENGLISH/LANGUAGE ARTS (** NCAA Approved Course)	CREDIT VALUE	PREREQUISITE
E34710	** The Gothic Imagination	0.50	Successful completion of English 10. Note: If enrolled in English Composition 11 or 12 for 0.50 credit, this course may be taken for the remaining 0.50 credit to fulfill the grade-level English requirement (11th or 12th only).
E34810	** Women and Literature	0.50	Successful completion of English 10. Note: If enrolled in English Composition 11 or 12 for 0.50 credit, this course may be taken for the remaining 0.50 credit to fulfill the grade-level English requirement (11th or 12th only).
E34510	** Mythology & Folklore	0.50	Successful completion of English 10. Note: If enrolled in English Composition 11 or 12 for 0.50 credit, this course may be taken for the remaining 0.50 credit to fulfill the grade-level English requirement (11th or 12th only).
E34310	** Crime Stories: Courtroom Dramas & Psychological Thrillers	0.50	Successful completion of English 10. Note: If enrolled in English Composition 11 or 12 for 0.50 credit, this course may be taken for the remaining 0.50 credit to fulfill the grade-level English requirement (11th or 12th only).
E50030	English Dual Enrollment	1.00	See School Counselor for Information (PRINCIPAL PRE-APPROVAL)
E12010	Film Appreciation	0.50	N/A
E12210	Disney: The Happiest Elective on Earth	0.50	N/A
E12610	** Fantasy and Science Fiction Literature	0.50	N/A
E13610	Comics, Superheroes, & Graphic Novels	0.50	N/A
E13210	** Holocaust and Jewish Literature	0.50	N/A
E34610	** Short Stories	0.50	Grade 10 students will need ELA Teacher Recommendation
E38010	** Young Adult Literature	0.50	N/A (should be an avid reader)
E36110	** Self-Paced Creative Writing	0.50	N/A
E36510	** Exploring Writing	0.50	N/A
E26010	** Creative Writing	0.50	N/A
E13010	Digital Content Creation	0.50	N/A
E37510	** Introduction to Journalism	0.50	N/A
E23010	Sports and News Broadcast Journalism	0.50	N/A
E47010Q	McDowell Media Newroom	0.50	Successful completion of Intro to Journalism or Sports and News Broadcast Journalism (Can be taken more than once)
E33510	Video Production	0.50	Successful completion of Digital Content Creation or Sports and News Broadcast Journalism
E16110	** Debate on Current Events	0.50	N/A
E16210	** Public Speaking	0.50	N/A
E36310	** Forensics - Speech & Debate	0.50	Successfully completed Debate of Current Events or Public Speaking
E34410	Independent Research Project	0.50	N/A

Course #	FAMILY & CONSUMER SCIENCE	CREDIT VALUE	PREREQUISITE
F11610	Baking & Pastry Arts 1	0.50	N/A
F21610	Baking & Pastry Arts 2	0.50	Successful Completion of Baking and Pastry 1 earning a B or better.
F11210	Creative Cooking	0.50	N/A
F10510	Exploring Culinary Arts	0.50	N/A
F12010	Fashion & Fabric 1	0.50	N/A
F22010	Fashion & Fabric 2	0.50	Successful Completion of Fashion and Fabric 1
F10810	Lifetime Nutrition	0.50	N/A
F32010	Sew It Again	0.50	Successful Completion of Fashion and Fabric 1
F27010	Career Explorations	0.50	N/A
F23010	Education Profession Level 1	1.00	N/A
F33010	Education Profession Level 2	1.00	"B" or better in Educational Profession Level 1 & teacher recommendation
F43010	Education Profession Level 3	1.00	"B" or better in Educational Profession Level 1&2 and teacher recommendation
F34010	Surviving and Thriving Adulthood	0.50	N/A

Course #	GENERAL (** NCAA Approved Course)	CREDIT VALUE	PREREQUISITE
G14010	United States Academic Decathlon	1.00	N/A
G39110	Independent Study (11/12)	0.50	See School Counselor for Information
G24030	**AP® Seminar	1.50	Recommendation from English Teacher
G31110	Foundations for Success	0.50	Referral from Counselor, Teacher, or Administrator
G32010	SAT Prep	0.50	Alg 1, Geometry, and Alg 2. Students must be taking a Spring SAT Exam
G48510	Internship/Job Shadowing	0.50	See School Counselor for Information (GPA 2.5 and 90% Attendance Rate)
G48610	McDowell Manufacturing Internship	0.50	2.5 GPA and 90% attendance - See Counselor

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MATHEMATICS (** NCAA Approved Course)		CREDIT VALUE	PREREQUISITE
M34720	Honors Financial Algebra	1.00	Aca Trigonometry/Algebra 3 or Honors Algebra 2
M56910	** Intro to Statistics	0.50	Completion of Academic Algebra 2 or higher
M57010	** Data by Design: Project-Based Statistics	1.00	Completion of Academic Algebra 2 or higher
M57020	** Honors Probability and Statistics	1.00	"B" or better in Honors Algebra 2 or higher w/ math teacher recommendation
M57030	** AP® Statistics	1.00	"B" or better in Honors Algebra 2 or higher w/ math teacher recommendation
M56020	** Honors Calculus	1.00	"B" or better in Honors PreCalc/Trig or higher w/ math teacher recommendation
M56030S	** AP® Calculus AB	1.00	"A" or better in Honors PreCalc/Trig or higher w/ math teacher recommendation (1 Semester in length)
M56030Y	** AP® Calculus AB	2.00	"A" or better in Honors PreCalc/Trig or higher w/ math teacher recommendation (1 Year in length)
M58030	** AP® Calculus BC	1.00	Honors or AP® Calculus AB w/ math teacher recommendation
M53030	Math Dual Enrollment	1.00	See School Counselor for Information (PRINCIPAL PRE-APPROVAL)
G32010	SAT Prep	0.50	Alg 1, Geometry, and Alg 2. Students must be taking a Spring SAT Exam
SCIENCE (** NCAA Approved Course)		CREDIT VALUE	PREREQUISITE
C25030	** AP® Biology	2.00	Hon Biology (Final Grade B or better) AND Honors/AP® Chemistry (Final Grade B or better); Recommend completion or concurrent Statistics course.
C34030	** AP® Chemistry	2.00	Algebra 2 (Final Grade B or better) AND Academic/Honors Chemistry (Final Grade B or better)
C15510	** Earth and Space Science	0.50	Not for students who have taken Earth and Space Science for 1 credit.
C33010	** Mechanical Science	1.00	N/A
C33510	** Conservation Science	1.00	N/A
C37010	** Environmental Issues	0.50	Not for students who have completed Environmental Science
C37030	** AP® Environmental Science	1.00	Recommendation from a Science Teacher
C28010	** CSI Forensics	0.50	"B" or better in Academic/Honors Biology
C34220	** Honors Chemistry 2	1.00	"B" or better in Honors Chemistry - Not for students who have completed AP®
C34420	** Honors Chemistry for Health Sciences	1.00	Honors or AP® Chemistry; Academic Chemistry w/ teacher recommendation
C36020	** Honors Anatomy & Physiology I	1.00	Aca Biology (Final Grade "A") or Hon/AP® (Final Grade of "B" or better)
C36220	** Honors Anatomy & Physiology II	1.00	"B" or higher in Honors Anatomy & Physiology I
C50030	Science Dual Enrollment	1.00	See School Counselor for Information (PRINCIPAL PRE-APPROVAL)
T17010	Environmental Agriculture and Landscaping	0.50	N/A (Note: counts as a 0.50 of Science)
SOCIAL STUDIES (** NCAA Approved)		CREDIT VALUE	PREREQUISITE
S25030	** AP® Human Geography	1.00	Recommendation from Social Studies or English Teacher. Students will be reading college level text and should have strong writing skills.
S45530	** AP® US Government and Politics	1.00	Recommendations from previous Social Studies Teacher.
S55530	** AP® Comparative Government and Politics	1.00	Teacher Recommendation
S48010	** Aca Psychology	1.00	N/A
S48020	** Hon Psychology	1.00	Strong Performance in English and Social Studies recommended
S48030	** AP® Psychology	1.00	Honors Teacher Recommendation
S18010	Positive Psychology	0.50	N/A
S50030	Social Studies Dual Enrollment	1.00	See School Counselor for Information (PRINCIPAL PRE-APPROVAL)
S19010	Mental Fitness	0.50	N/A
S23510	** Current Issues	0.50	N/A
S23710	** Introduction to Criminal Justice	0.50	N/A
S28110	** Justice Education	0.50	N/A
S29010	** Constitutional Law	0.50	Recommendation from Social Studies Teacher
S33010	** Contemporary Issues	0.50	N/A
S35010	** Modern Warfare & Global Conflicts	0.50	N/A
S35510	** World Religions	0.50	N/A
TECHNOLOGY		CREDIT VALUE	PREREQUISITE
T21310	Building Trades 1	1.00	Introduction to Wood & Building Trades
T31310	Building Trades 2	1.00	Introduction to Wood & Building Trades AND Building Trades 1
T41310	Building Trades 3	1.00	Intro to Wood & Building Trades AND Building Trades 1 & 2
T17010	Environmental Agriculture and Landscaping	0.50	N/A (Note: counts as a 0.50 of Science)
T12010	Foundations of Technology Design and Engineering	1.00	N/A
T36010	Graphics Technology 1	0.50	N/A

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Course #	TECHNOLOGY Con't	CREDIT VALUE	PREREQUISITE
T46010	Graphics Technology 2	0.50	Graphics Technology 1
T21510	Home Maintenance	0.50	N/A
T13510	Robotics 1	1.00	N/A
T23510	Robotics 2	1.00	Successful completion of Robotics 1
T33510	Robotics 3	1.00	Successful completion of Robotics 1 and Robotics 2
T11310	Introduction to Wood & Building Trades	0.50	N/A
T21110	Wood Technology 2	1.00	Introduction to Wood & Building Trades
T15010	Materials Mfg.: Metal Technology 1	0.50	N/A
T25010	Materials Mfg.: Metal Technology 2	0.50	Materials Mfg.: Metal Technology 1
T14510	Welding & Fabrication 1	0.50	N/A
T24510	Welding & Fabrication 2	0.50	Welding & Fabrications 1
T34510	Welding & Fabrication 3	1.00	Welding & Fabrications 1 AND 2
T22110	Architectural Design	1.00	Foundations of Technology Design and Engineering
T41010	CNC Manufacturing	1.00	Intro to Wood & Building Trades & Metal Technology 1 w/ Teacher Recommendation
T47510	Introduction to Applied Engineering	1.00	Algebra 2
T32110	Advanced Computer Design and Manufacturing	1.00	Architectural Design
G48610	McDowell Manufacturing Internship	0.50	2.0 GPA and 90% attendance - See Counselor
Course #	VISUAL ARTS (** NCAA Approved Course)	CREDIT VALUE	PREREQUISITE
A21810	Animation	0.50	N/A
A13010	Ceramics 1	0.50	N/A
A23010	Ceramics 2	0.50	Successful completion of Ceramics 1
A11510	Creative Sketchbooking	0.50	N/A
A10110	Design Exploration	0.50	N/A
A14010	Drawing 1	0.50	N/A
A24010	Drawing 2	0.50	Successful completion of Drawing 1
A12510	Experimental Markmaking	0.50	N/A
A16010	Interior Design 1	0.50	N/A
A36010	Interior Design 2	0.50	Successful completion of Interior Design 1
A17010	Painting 1	0.50	N/A
A27010	Painting 2	0.50	Successful completion of Painting 1
A18010	Sculpture 1	0.50	N/A
A28010	Sculpture 2	0.50	Successful completion of Sculpture 1
A10510	Digital Illustration	0.50	N/A
A34010	Advanced 2D Studio	0.50	Successful completion of Drawing 2 <u>OR</u> Painting 2
A33010	Advanced 3D Studio	0.50	Successful completion of Sculpture 2 <u>OR</u> Ceramics 2
A44010	** AP® Drawing	1.00	Successful Performance in Advanced 2D Studio
Course #	WELLNESS (Students may not have more than 2 PE courses within a single year and must have at least 1 PE course each year.)	CREDIT VALUE	PREREQUISITE
H35010	Advanced Teams Sports (11/12)	0.50	Meets Phy. Ed. Requirements in grades 10-12
H14210	Aquatics 2	0.50	Successful Deep-Water Test in Aquatics AND Complete Cooper Swim in the big pool (at least 14 lengths). Meets Phy. Ed. Requirement in grades 10-12.
H17010	PE Dance	0.50	Meets Phy. Ed. Requirements in grades 10-12. <u>Required Attire:</u> Ballet, Tap, and Jazz Shoes
H28010	Popular Dance	0.50	Meets Phy. Ed. Requirements in grades 10-12
H33110	Personal Fitness (11/12)	0.50	Meets Phy. Ed. Requirements in grades 11-12
H33010	Weight Training (11/12)	0.50	Meets Phy. Ed. Requirements in grades 11-12
H36010	Lifetime Activities (11-12)	0.50	Meets Phy. Ed. Requirements in grades 11-12
H48010	Introduction to Health Sciences	0.50	"C" or better in Academic Biology and Academic Chemistry <u>OR</u> "B" or better in Applied Biology and Applied Chemistry and a Science Teacher Recommendation
Course #	WORLD LANGUAGE (** NCAA Approved Course)	CREDIT VALUE	PREREQUISITE
W15010	** German 1	1.00	N/A
W25010	** German 2	1.00	"C" average in German 1, plus teacher recommendation
W35020	** Honors German 3	1.00	"B" average in German 2, plus teacher recommendation
W45020	** Honors German 4	1.00	"B" average in Honors German 3, plus teacher recommendation
W25510	** German Culture	0.50	Successful Completion of German 2
W17010	** Spanish 1	1.00	N/A
W27010	** Spanish 2	1.00	"C" average in Spanish 1, plus teacher recommendation

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Course #	WORLD LANGUAGE Con't (** NCAA Approved Course)	CREDIT VALUE	PREREQUISITE
W37020	** Honors Spanish 3	1.00	"B" average in Spanish 2, plus teacher recommendation
W47020	** Honors Spanish 4	1.00	"B" average in Honors Spanish 3, plus teacher recommendation
W57020	** Honors Spanish 5	1.00	"B" average in Honors Spanish 4, plus teacher recommendation
W25510	** Spanish Culture	0.50	Successful Completion of Spanish 2
W50030	Foreign Language Dual Enrollment	1.00	See School Counselor for Information (PRINCIPAL PRE-APPROVAL)

Course #	Erie County Technical School (ECTS)	CREDIT VALUE	PREREQUISITE
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There are a wide range of technical programs at ECTS. Students must follow the ECTS application process. If you have questions or interest in ECTS you should see your school counselor in the Guidance Office asap. Once you have applied to ECTS and been both accepted and confirmed your school counselor will input the program into your schedule. Until that time you are to schedule as if you were not attending ECTS. If you are enrolled at ECTS, then your school counselors will input your ECTS program for the following school year.

INCOMING JUNIORS MUST HAVE NO LESS THAN 12 CREDITS EARNED BY THE END OF 10th GRADE TO BE PROMOTED TO 11th GRADE (Junior Status)

Credits	Typical Course Schedule Includes:
1.00	Core: a level of English 11
1.00	Core: a level of Math
1.00	Core: a Level of Science
1.00	Core: a level of US History
1.00	Required: Health 11 and Phy. Ed. Course
0.50	Required: Financial Literacy
5.50	# of Core and Required Credits
2.50	Elective credits available
8.00	Total Credits for Junior Year.

- When entering incoming 11th grade students scheduling requests:**
- 1 Review core selections carefully. Make sure you are meeting all prerequisites.
 - 2 Select electives based upon your career, post-secondary, and personal interests.
 - 3 Select 3 credits of electives, and then select at least 3 more credits of alternate electives. This is vital in case some of your first choice electives are not available.
 - 4 Be sure you have completed all 10th Grade Naviance Career Tasks.

Teachers and Administration enter Core and Required courses February 23 - March 1

Students must enter Primary Electives and Alternate Electives between March 2-8 only.

Students need 116/116 units to have a full schedule request.