

Randolph-Macon Academy revised 6/9/17

2017-18 Graduation/Diploma Requirements & Course List

Mr. Jonathan Ezell, Academic Dean

Mr. Derrick Leasure, Assistant Academic Dean

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- **Students have 7 classes a day and must meet the graduation and credit requirements.**
- **AP and Honors Courses must be approved by the Department Chair. If a student is not already approved they may email their current teacher to seek approval.**
- **Please note when a course has a prerequisite or co-requisite, be sure you have met those requirements before selecting.**
- **Dual-Enrolled Courses are designated and will require an additional fee if the student wishes to receive college credit.**
- **All students must have at least 1 Fine Art elective credit to graduate**

GRADUATION CREDIT REQUIREMENTS AND DIPLOMA TYPES

| Advanced Diploma | College Preparatory |
|---|---|
| 4 Language Arts Courses (English/ESL) | 4 Language Arts Courses (English/ESL) |
| 4 Required Social Studies Courses: World History II, Bible, United States History, & United States Government | 4 Required Social Studies Courses: World History II, Bible, United States History, & United States Government |
| 4.5 Mathematics Courses* *(.5 Credit for Computer) | 3.5 Mathematics Courses* *(.5 Credit for Computer) |
| 4 Science Courses | 3 Science Courses |
| 3 Years of One Foreign Language | 2 Years of One Foreign Language |
| 2 Credits of Physical Education | 2 Credits of Physical Education |
| 4.5 Electives * (1 Elective Credit must be a Fine Art Elective) | 4.5 Electives * (1 Elective Credit must be a Fine Art Elective) |
| Aerospace each year in attendance | Aerospace each year in attendance |
| 27 Credits minimum | 24 Credits minimum |

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English, Department Chair: Mr. Robert Davies rdavies@rma.edu

**4 Total Credits required for Advanced Diploma and College Preparatory Diploma
(Double English classes in 9th and 10th grade for 1 English Credit and 1 Elective Credit)**

- English 9 (1 section Composition and 1 section Literature)
- Honors English 9 (1 section Composition and 1 section Literature)
- English 10 (1 section Composition and 1 section Literature)
- Honors English 10 (1 section Composition and 1 section Literature)
- English 11(American Literature)
- AP English 11 (English Language & Composition)
- English 12 (British Literature)
- Utopia/Dystopia (Honors English 12)
- AP English 12 (English Literature & Composition)* Dual-Enrolled through Shenandoah University
- English as a Second Language III (ESL 3) (Double Block) (720-780 TOEFL Jr. score/64 TOEFL score)
- Mainstream English (MS) The course between ESL and Regular English (Double Block) (780+ TOEFL Jr. score/74 TOEFL score)

English Electives

- Honors Arts in Society

Social Studies, Department Chair: Mr. Brian Barbour bbarbour@rma.edu

4 Total Credits required for Advanced Diploma and College Preparatory Diploma

- World History II (Honors is available based on recommendation) (9th grade)
- Bible (10th grade)
- US History (11th grade)
- AP US History* (11th grade) Dual-Enrolled through Shenandoah University
- US Government (12th grade)
- AP US Government (12th grade)

Social Studies Electives

- AP European History* Dual-Enrolled through Shenandoah University
- 20th Century Warfare (semester course)
- AP Psychology* Dual-Enrolled through Shenandoah University
- Sociology/Criminology
- AP Art History

Mathematics, Department Chair: Mr. Eric Barr ebarr@rma.edu

4 Total Credits required for Advanced Diploma and 3 Total Credits required for College Preparatory Diploma plus all students must have at least .50 credit in a computer class to equal 4.5 and 3.5.

- Algebra I (Reg & Honors)

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- Geometry (Reg & Honors)
- Algebra II/Trigonometry (Reg & Honors)
- Transition to College Mathematics and Statistics
- Pre-Calculus
- Honors Pre-Calculus* Dual-Enrolled through Shenandoah University
- Statistics
- AP Statistics
- AP Calculus AB (Calculus I)* Dual-Enrolled through Shenandoah University
- AP Calculus BC (Calculus II)* Dual-Enrolled through Shenandoah University

Science, Department Chair: Dr. Anthony Maranto amaranto@rma.edu

4 Total Credits required for Advanced Diploma and 3 Total Credits required for College Preparatory Diploma

- Biology
- AP Biology Prerequisites: General Biology with an A or B and General Chemistry with an A or B. *Dual-Enrolled through Shenandoah University
- Chemistry
- AP Chemistry Prerequisites: General Chemistry with a grade of A or B and Algebra 2 with a grade of A or B.
- Physics Prerequisites: Algebra 1 and Algebra 2
- AP Physics Prerequisites: General Physics with a grade of A or B, Algebra 2 with a grade of A or B, and AP Calculus with a grade of A, B, or C, or currently enrolled in AP Calculus
- Honors Anatomy & Physiology: Integrates anatomy and physiology of cells, tissues, organs and systems of the human body. Integrates concepts of chemistry, physics and pathology. Dual Enrolled through Shenandoah University as Biology 231.
- Geospatial Information Systems (GIS) (full year course): This course teaches the basics of Geospatial Information Systems (GIS), which is a computer-based processing of data, both spatial and geographical, for the purpose of understanding concepts, presenting information, and recommending action on a specific topic of interest. Processing includes capturing, storing, manipulating, analyzing, managing, and displaying information that effectively crosses academic boundaries. GIS skills are inherently transferable, utilized in an increasingly broad array of fields and professions in industry. Individual interests are encouraged as the selection of your GIS projects and are typically associated with current events, personal interest, and school or community focus. Project presentations allow students to build communication skills and introduce mixed topics of interests to all classmates. **Corequisites: Algebra II.** *Dual Enrolled through James Madison University
- **New Course: Biotechnology: This course introduces current topics in the life science technologies through lecture and laboratory exercises. Topics include advances in genetic engineering, the hierarchy of life and the rise of infectious diseases. Lab will explore modern techniques used in biological and biomedical research. Dual enrollment through JMU is PENDING! Only 11th and 2th graders may sign up for dual-enrollment.**

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Foreign Language, Department Chair: Mr. Stephen Latham slatham@rma.edu

3 Total Credits required for Advanced Diploma and 2 Total Credits required for College Preparatory Diploma

- French 1, 2, 3 (Honors), 4 (AP), 5 (AP)
- German 1, 2, 3 (Honors), 4 (AP), 5 (AP)
- Spanish 1, 2, 3 (Honors), 4 (AP), 5 (AP)

ROTC Aerospace Classes, Department Chair: Col John Quattrone jquattrone@rma.edu

Required course for each year at R-MA.

- AS-1 (Freshman Year): A Journey into Aviation History/Citizenship, Character and Air Force Tradition
- AS-2 (Sophomore Year): The Science of Flight / Communication, Awareness, and Leadership
- AS-3 (Junior Year): 1st semester - The Exploration of Space/2nd semester - Life Skills and Career Opportunities
- AS-4 (Senior Year): Principles of Management

Aerospace Elective

- Drill Class: Introduces cadets to military drill per AFMAN 36-2203. Prepares cadets to execute and lead the 30-count drill procedure, Color Guard ceremonial presentations, command students via flight or squadron formation in an orderly manner through the 24-inch step with cadence of 100 to 120 steps per minute, distance, and interval and establishing movements with order and precision. Individuals will also learn to adapt their own movements to those of the group moving in unison. Curriculum teaches leadership, teamwork, and drill team performance.

Fine Arts Electives

1 Total Credit required for Advanced Diploma and College Preparatory Diploma

- Advanced Art (This is for students who have already had a regular art class)
- Band
- Chorus
- Digital Piano
- Drama
- Handbell Choir
- Studio Art
- Yearbook
- AP Art History
- The Honors Arts in Society

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Physical Education

2 Total Credits required for Advanced Diploma and College Preparatory Diploma

- Personal Fitness (Semester Course)
- Health/Wellness (A student will receive .50 PE credit if successfully complete the E2C program through ROTC classes)
- Sports Credit (A student will receive a .50 PE credit for each varsity sport they earn a letter in)

Additional Elective

- Ground School 11th & 12th graders have first priority.
- **New Course: An Introduction to Entrepreneurship Course from David J. Olderman and Kiley Williams (11th & 12th graders only). (Semester 1 Course) Course Description: In the world of business, there are very few rules, and while it can be very rewarding, it can also be very unforgiving. There is a fear of the unknown, and that fear prevents even the most capable individuals from following their passion. This course will turn the unknown into the known, and it will provide students with a view into the world of an entrepreneur, working with partners and investors, and understanding how to make customers happy. They will also get a better understanding of the challenges that they will face in all aspects of business, whether they are starting a company, or working for an existing company. We will do this by providing a structured environment where they can make mistakes, learn from those mistakes, and have the proper tools in their toolbox to take on any challenge that the real world throws their way.**
- **New Course: Unmanned Flight Operations: This course introduces the student to the aeronautical science of small Unmanned Aircraft Systems and provides the instruction necessary for Remote Pilot Certification. The areas of instruction include unmanned aircraft construction, remote aircraft systems and components, aircraft performance and payload, aerodynamics, airspace and sectional charts, meteorology, federal aviation regulations, human factors, crew resource management, imaging, flight operations and emergency procedures, and real world application. At the conclusion of the course, the student will be prepared to take the Federal Aviation Administration written exam and earn a Remote Pilot Certificate. (Full Year Course)**