



# Career Programs of Study

## A GUIDE TO PROGRAMS OF STUDY IN CAREER CLUSTERS

The Career Programs of Study Toolkit is designed for school counselors, academy coordinators, teachers, and students. Comprehensive information is provided regarding the eleven career clusters and their corresponding College career programs of study and articulation agreements.

*This guide has requirements for Montgomery County Public School (MCPS) students who entered 9<sup>th</sup> grade in the 2016–2017 school year.*

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## CAREER PROGRAMS OF STUDY RESOURCE CENTER

### CAREER CLUSTERS OVERVIEW

Today's information-based economy demands highly skilled individuals with the ability to work with people from different cultural and educational backgrounds. Therefore, Montgomery County Public Schools, Career Pathway Programs (CPPs) strive to provide students with an education that combines rigorous academic and technical study with the excitement of discovery through small learning communities and career-themed programs. With the support of the business and higher-education communities, students apply their acquired skills and knowledge to make informed decisions concerning education, careers, and a path toward lifelong learning.

The purpose of the career cluster model is to direct high school students toward focused programs of study that make their experiences more meaningful by relating future goals to current course work. The MCPS career clusters are based on what students need to know and be able to do in order to graduate prepared for further education and careers in the 21st century. The following are the 11 MCPS career clusters:

#### **ARTS, HUMANITIES, MEDIA, AND COMMUNICATION**

Arts, Humanities, Media, and Communications programs offer opportunities for students to pursue interests in careers related to art, music, drama, and other creative expression. Students prepare to assume leadership roles in career majors that include, but are not limited to humanities, radio and television broadcasting, film and cinema studies, public relations/advertising, fine arts, digital media, electronic media, graphic arts, printing, and foreign language.

*Radio, Television, Multimedia and Web, Multimedia Game, PrintEd*

#### **BIOSCIENCES, HEALTH SCIENCE, AND MEDICINE**

Biosciences, Health Science, and Medicine programs offer rigorous academic curriculum combined with hands-on application of academic and technical skills. Students have the opportunity to earn nationally-recognized industry certifications in this program. Students use state-of-the-art technology and acquire new professional competencies as they participate in challenging internships at biotechnology firms and local hospitals. Employment trends for this cluster are considered to be exceptionally strong for the next ten years.

*Academy of Health Professions and Biosciences, Biomedical Sciences, Project Lead the Way, Biotechnology, Medical Careers*

#### **BUSINESS MANAGEMENT AND FINANCE**

Almost all organizations operate using similar business functions. These functions include hiring and training of staff, creating products or offering a service, marketing and selling those products or services, and managing the financial operations and information created in the organization. Within the Business Management and Finance cluster, students will be provided with opportunities to explore different careers and continuing education paths. They will obtain valuable knowledge of career choices as they apply new learning's in classrooms and workplaces. As lifelong learning takes place for these students, the quality of life for the community, and society as a whole, will be raised.

*Academy of Finance, Accounting, Business Administration, Marketing*

## **COLLEGE/CAREER RESEARCH AND DEVELOPMENT (CCRD)**

CCRD prepares high school students for a competitive edge in our global society with academic, technical, and 21st century skills. More information can be found at <http://www.montgomeryschoolsmd.org/curriculum/partnerships/exploration.aspx>

## **CONSTRUCTION AND DEVELOPMENT**

Information about the Construction and Development career cluster can be found on the Montgomery County Student Foundations [website](#) under the Construction Trades Foundation.

*Principals of Architecture and CAD Technology, Carpentry, Electricity, Heating, Ventilation, and Air Conditioning (HVAC), Masonry, Plumbing*

## **EDUCATION, TRAINING, AND CHILD STUDIES**

Due to changing family dynamics and workplace demands, employment opportunities continue to grow in careers related to children. In addition, the nationwide shortage of educators affords students excellent opportunities in the classroom as well as in the business world. Students prepare for occupations which include, but are not limited to, teachers, teaching assistants, trainers, instructional coordinators, and administrators. Students who enroll in Education, Training, and Child Studies programs engage in authentic experiences that prepare them for careers in these rapidly-expanding professions.

*Early Child Development, Teacher Academy of Maryland*

## **ENGINEERING, SCIENTIFIC RESEARCH, AND MANUFACTURING TECHNOLOGIES**

Engineering, Scientific Research, and Manufacturing Technologies programs offer opportunities for students to pursue interests at various levels within the engineering and research fields by experiencing and engaging in engineering practices. According to the National Alliance for Pre-engineering Programs, by 2010, half of all baby boomers will be gone, from the workforce. By 2020, the other half will be gone leaving a critical gap in the engineering fields. These two pathways prepare students to be successful in engineering fields like aerospace, architecture, chemical, civil, electrical, environmental, manufacturing, material, mechanical, nuclear and transportation.

*Advanced Engineering Project Lead The Way (PLTW)*

## **ENVIRONMENTAL, AGRICULTURAL, AND NATURAL RESOURCES**

Programs in the Environmental, Agricultural, and Natural Resource cluster offer opportunities for students to pursue their interests in the green industry which may include, but are not limited to, fisheries management, wildlife management, soil and waste management, forestry, civil engineering, landscape design, environmental controls, environmental engineering, research and testing, earth sciences, agriculture, aquaculture, and horticulture.

*Certified Professional Horticulturist*

## **HUMAN AND CONSUMER SERVICES, HOSPITALITY, AND TOURISM**

Programs in the Human and Consumer Services, Hospitality, and Tourism cluster offer opportunities for students to pursue interests in careers related to the largest, fastest growing industry in the United States. The hospitality/food industry offers opportunities for dynamic career paths in high skill, managerial and entrepreneurial positions worldwide. Employers in this \$800 billion industry include the government, major food companies, restaurants, hotels, resorts, cruise lines, hospitals, and universities. The consumer services industry is growing to address the increasing needs of a work-oriented society. Through hands-on activities, laboratory work, and field experiences, students relate academic competencies to industry requirements.

*Academy of Hospitality and Tourism, Cosmetology, Hospitality Management, Manicuring, Professional Restaurant Management*

## **INFORMATION TECHNOLOGIES**

Information Technology (IT) is one of America's fastest growing industries, encompassing computers, software, telecommunications products and services, Internet and online services, systems integration and professional services companies. The U.S. Department of Labor reports that, by 2016, the United States will require more than 1.3 million new highly-skilled IT workers ranging from computer scientists and engineers to systems analysts and programmers.

*Academy of Information Technology: Computer Programming, Information Resource Design, Networking; Cisco Academy, Computer Science Network Operations*

## **LAW, GOVERNMENT, PUBLIC SAFETY, AND ADMINISTRATION**

Law, Government, Public Safety, and Administration programs offer students the academic background and critical thinking skills that enable them to enter a **wide variety of** postsecondary programs and access employment in this career field. Possibilities include careers in criminal justice, foreign affairs, homeland security, emergency management, legal services, and community development. In addition, Junior Reserve Officers Training Corps (JROTC) develops future leaders and offers students many opportunities for college scholarships and military academy nominations. Employment demand for jobs in this cluster continues to grow.

*Justice, Law and Society*

## **TRANSPORTATION, DISTRIBUTION, AND LOGISTICS**

Information about the Transportation, Distribution, and Logistics career cluster can be found on the Montgomery County Student Foundations [website](#) under the Construction Trades Foundation.

*Automotive Body Repair and Painting, Automotive Service Assistant Program, Automotive Technology*

These clusters provide real-world learning experiences, including internships, while maintaining high academic standards. Students come to realize that graduation is a stepping stone to their lives beyond high school. They also acquire the skills, tools, and self-confidence to realize their dreams and goals.

Additionally, the 11 career clusters allow business leaders to be partners in education by involving them in the development of curriculum that includes industry skills and standards to meet certification requirements. Each career cluster has a Program Advisory Committee (PAC) that collaborates with MCPS, Montgomery College (MC), and other colleges and universities to align the high school and college curriculum to promote a smooth transition from high school to post-secondary education.

Each career cluster includes one or more CPPs. Most of these programs have an articulation agreement that details the courses that MCPS students must complete with a grade of B or better to receive college credit at MC and other institutions of higher learning. Completing a CPP at a MCPS high school and articulating credits to college benefits students in several ways. It gives them a head start on their higher education while at the same time saves tuition and book fees since these courses are completed prior to college enrollment. Essentially, these College articulated college credits are FREE.

This brochure lists each career cluster and its respective CPPs at both MCPS and associated colleges. After reviewing this information, it will be evident which MCPS courses articulate to programs and courses at MC and other postsecondary institutions. In addition, the process of articulating credits and the forms that are necessary for successful articulation will be clear.

## PROGRAM OF STUDY

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The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, You will find an award form at: Montgomery College Career and Technology Education <http://cms.montgomerycollege.edu/CTE/>

**ARTS, HUMANITIES, MEDIA, AND COMMUNICATION**

**BROADCAST MEDIA: RADIO**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |              |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                  |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                                              |         |
|-------------------------------------------------------------------------------------------------------|--------------|---------|--------------------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------|
| Course #                                                                                              | Course Name  | Credits | Course #                                                                                                           | Course Name      | Credits | Course #                                                                                                                       | Course Name                                                  | Credits |
| 5169                                                                                                  | RADIO PROD A | 0.5     | 5166                                                                                                               | RADIO STAT OPS A | 0.5     | 5310                                                                                                                           | GUIDED RESEARCH—ARTS, HUMANITIES, MEDIAN AND COMMUNICATION A | 0.5     |
| 5170                                                                                                  | RADIO PROD B | 0.5     | 5167                                                                                                               | RADIO STAT OPS B | 0.5     | 5311                                                                                                                           | GUIDED RESEARCH—ARTS, HUMANITIES, MEDIAN AND COMMUNICATION B | 0.5     |
|                                                                                                       |              |         | 5171                                                                                                               | EL AUD FLD PRD A | 0.5     | 5717                                                                                                                           | INTERN ART MEDIA                                             | 0.5     |
|                                                                                                       |              |         | 5172                                                                                                               | EL AUD FLD PRD B | 0.5     | 7300                                                                                                                           | DUAL CREDIT GENERAL COURSE                                   | 0.5     |
|                                                                                                       |              |         |                                                                                                                    |                  |         | 7362                                                                                                                           | DUAL CREDIT ARTS                                             | 0.5     |
|                                                                                                       |              |         |                                                                                                                    |                  |         | 7363                                                                                                                           | DUAL CREDIT ADVANCED ARTS                                    | 0.5     |
|                                                                                                       |              |         |                                                                                                                    |                  |         | 7366                                                                                                                           | DUAL CREDIT MEDIA                                            | 0.5     |
|                                                                                                       |              |         |                                                                                                                    |                  |         | 7367                                                                                                                           | DUAL CREDIT ADVANCED MEDIA                                   | 0.5     |
|                                                                                                       |              |         |                                                                                                                    |                  |         | 7813                                                                                                                           | INTERNSHIP A                                                 | 0.5     |
|                                                                                                       |              |         |                                                                                                                    |                  |         | 7816                                                                                                                           | INTERNSHIP B                                                 | 0.5     |
|                                                                                                       |              |         |                                                                                                                    |                  |         | 7818                                                                                                                           | INTERNSHIP DP A                                              | 1.0     |
|                                                                                                       |              |         |                                                                                                                    |                  |         | 7819                                                                                                                           | INTERNSHIP DP B                                              | 1.0     |
|                                                                                                       |              |         |                                                                                                                    |                  |         | 7823                                                                                                                           | INTERNSHIP TP B                                              | 1.5     |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

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**ARTS, HUMANITIES, MEDIA, AND COMMUNICATION**

**BROADCAST MEDIA: TELEVISION**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |              |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                 |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                                              |         |
|-------------------------------------------------------------------------------------------------------|--------------|---------|--------------------------------------------------------------------------------------------------------------------|-----------------|---------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------|
| Course #                                                                                              | Course Name  | Credits | Course #                                                                                                           | Course Name     | Credits | Course #                                                                                                                       | Course Name                                                  | Credits |
| 5173                                                                                                  | VIDEO PROD A | 0.5     | 5175                                                                                                               | VIDEO FLD PRO A | 0.5     | 5310                                                                                                                           | GUIDED RESEARCH—ARTS, HUMANITIES, MEDIAN AND COMMUNICATION A | 0.5     |
| 5174                                                                                                  | VIDEO PROD B | 0.5     | 5176                                                                                                               | VIDEO FLD PRO B | 0.5     | 5311                                                                                                                           | GUIDED RESEARCH—ARTS, HUMANITIES, MEDIAN AND COMMUNICATION B | 0.5     |
|                                                                                                       |              |         | 5177                                                                                                               | MED MGMT PROD A | 0.5     | 5717                                                                                                                           | INTERN ART MEDIA                                             | 0.5     |
|                                                                                                       |              |         | 5178                                                                                                               | MED MGMT PROD B | 0.5     | 7300                                                                                                                           | DUAL CREDIT GENERAL COURSE                                   | 0.5     |
|                                                                                                       |              |         |                                                                                                                    |                 |         | 7366                                                                                                                           | DUAL CREDIT MEDIA                                            | 0.5     |
|                                                                                                       |              |         |                                                                                                                    |                 |         | 7367                                                                                                                           | DUAL CREDIT ADVANCED MEDIA                                   | 0.5     |
|                                                                                                       |              |         |                                                                                                                    |                 |         | 7813                                                                                                                           | INTERNSHIP A                                                 | 0.5     |
|                                                                                                       |              |         |                                                                                                                    |                 |         | 7816                                                                                                                           | INTERNSHIP B                                                 | 0.5     |
|                                                                                                       |              |         |                                                                                                                    |                 |         | 7818                                                                                                                           | INTERNSHIP DP A                                              | 1.0     |
|                                                                                                       |              |         |                                                                                                                    |                 |         | 7819                                                                                                                           | INTERNSHIP DP B                                              | 1.0     |
|                                                                                                       |              |         |                                                                                                                    |                 |         | 7822                                                                                                                           | INTERNSHIP TP A                                              | 1.5     |
|                                                                                                       |              |         |                                                                                                                    |                 |         | 7823                                                                                                                           | INTERNSHIP TP B                                              | 1.5     |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

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ARTS, HUMANITIES, MEDIA, AND COMMUNICATION

**MULTIMEDIA AND INTERACTIVE TECHNOLOGIES: MULTIMEDIA WEB**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                                     |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                  |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                                              |         |
|-------------------------------------------------------------------------------------------------------|-------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------|
| Course #                                                                                              | Course Name                         | Credits | Course #                                                                                                           | Course Name      | Credits | Course #                                                                                                                       | Course Name                                                  | Credits |
| 5195                                                                                                  | INTRODUCTION TO INTERACTIVE MEDIA A | 0.5     | 2991                                                                                                               | WEB SITE DVLP A  | 0.5     | 5310                                                                                                                           | GUIDED RESEARCH—ARTS, HUMANITIES, MEDIAN AND COMMUNICATION A | 0.5     |
| 5196                                                                                                  | INTRODUCTION TO INTERACTIVE MEDIA B | 0.5     | 2992                                                                                                               | WEB SITE DVLP B  | 0.5     | 5311                                                                                                                           | GUIDED RESEARCH—ARTS, HUMANITIES, MEDIAN AND COMMUNICATION B | 0.5     |
|                                                                                                       |                                     |         | 2936                                                                                                               | ADV WEB & DGTL A | 0.5     | 5717                                                                                                                           | INTERN ART MEDIA                                             | 0.5     |
|                                                                                                       |                                     |         | 2937                                                                                                               | ADV WEB & DGTL B | 0.5     | 7312                                                                                                                           | DUAL CREDIT COMPUTER APPLICATIONS                            | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                  |         | 7313                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER APPLICATIONS                   | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                  |         | 7314                                                                                                                           | DUAL CREDIT COMPUTER SCIENCE                                 | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                  |         | 7315                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER SCIENCE                        | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                  |         | 7366                                                                                                                           | DUAL CREDIT MEDIA                                            | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                  |         | 7367                                                                                                                           | DUAL CREDIT ADVANCED MEDIA                                   | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                  |         | 7813                                                                                                                           | INTERNSHIP A                                                 | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                  |         | 7816                                                                                                                           | INTERNSHIP B                                                 | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                  |         | 7818                                                                                                                           | INTERNSHIP DP A                                              | 1.0     |
|                                                                                                       |                                     |         |                                                                                                                    |                  |         | 7819                                                                                                                           | INTERNSHIP DP B                                              | 1.0     |
|                                                                                                       |                                     |         |                                                                                                                    |                  |         | 7822                                                                                                                           | INTERNSHIP TP A                                              | 1.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                  |         | 7823                                                                                                                           | INTERNSHIP TP B                                              | 1.5     |

\* Unlimited repeats

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

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*ARTS, HUMANITIES, MEDIA, AND COMMUNICATION*

**MULTIMEDIA AND INTERACTIVE TECHNOLOGIES: MULTIMEDIA GAME**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 1.0 CREDIT FROM GROUP B + 2.0 CREDITS FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                                     |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                                              |         |
|-------------------------------------------------------------------------------------------------------|-------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------|----------------|---------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------|
| Course #                                                                                              | Course Name                         | Credits | Course #                                                                                                           | Course Name    | Credits | Course #                                                                                                                       | Course Name                                                  | Credits |
| 5195                                                                                                  | INTRODUCTION TO INTERACTIVE MEDIA A | 0.5     | 2804                                                                                                               | GAME DEVELOP A | 0.5     | 5310                                                                                                                           | GUIDED RESEARCH—ARTS, HUMANITIES, MEDIAN AND COMMUNICATION A | 0.5     |
| 5196                                                                                                  | INTRODUCTION TO INTERACTIVE MEDIA B | 0.5     | 2805                                                                                                               | GAME DEVELOP B | 0.5     | 5311                                                                                                                           | GUIDED RESEARCH—ARTS, HUMANITIES, MEDIAN AND COMMUNICATION B | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 5717                                                                                                                           | INTERN ART MEDIA                                             | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7312                                                                                                                           | DUAL CREDIT COMPUTER APPLICATIONS                            | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7313                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER APPLICATIONS                   | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7314                                                                                                                           | DUAL CREDIT COMPUTER SCIENCE                                 | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7315                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER SCIENCE                        | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7362                                                                                                                           | DUAL CREDIT ARTS                                             | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7363                                                                                                                           | DUAL CREDIT ADVANCED ARTS                                    | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7366                                                                                                                           | DUAL CREDIT MEDIA                                            | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7367                                                                                                                           | DUAL CREDIT ADVANCED MEDIA                                   | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7813                                                                                                                           | INTERNSHIP A                                                 | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7816                                                                                                                           | INTERNSHIP B                                                 | 0.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7818                                                                                                                           | INTERNSHIP DP A                                              | 1.0     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7819                                                                                                                           | INTERNSHIP DP B                                              | 1.0     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7822                                                                                                                           | INTERNSHIP TP A                                              | 1.5     |
|                                                                                                       |                                     |         |                                                                                                                    |                |         | 7823                                                                                                                           | INTERNSHIP TP B                                              | 1.5     |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 10.0105.0, OASIS # MG*

**ARTS, HUMANITIES, MEDIA, AND COMMUNICATION**

**GRAPHIC COMMUNICATIONS: PRINT ED**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                                             |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                                             |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                                              |         |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------|
| Course #                                                                                              | Course Name                                 | Credits | Course #                                                                                                           | Course Name                                 | Credits | Course #                                                                                                                       | Course Name                                                  | Credits |
| 5118                                                                                                  | PRINT TECHNOLOGIES & DIGITAL GRAPHICS TP 1A | 1.5     | 5119                                                                                                               | PRINT TECHNOLOGIES & DIGITAL GRAPHICS TP 1B | 1.5     | 5122                                                                                                                           | PRINT TECHNOLOGIES & DIGITAL GRAPHICS TP 2B                  | 0.5     |
|                                                                                                       |                                             |         | 5121                                                                                                               | PRINT TECHNOLOGIES & DIGITAL GRAPHICS TP 2A | 1.5     | 5310                                                                                                                           | GUIDED RESEARCH—ARTS, HUMANITIES, MEDIAN AND COMMUNICATION A | 0.5     |
|                                                                                                       |                                             |         |                                                                                                                    |                                             |         | 5311                                                                                                                           | GUIDED RESEARCH—ARTS, HUMANITIES, MEDIAN AND COMMUNICATION B | 0.5     |
|                                                                                                       |                                             |         |                                                                                                                    |                                             |         | 5717                                                                                                                           | INTERN ART MEDIA                                             | 0.5     |
|                                                                                                       |                                             |         |                                                                                                                    |                                             |         | 7813                                                                                                                           | INTERNSHIP A                                                 | 0.5     |
|                                                                                                       |                                             |         |                                                                                                                    |                                             |         | 7816                                                                                                                           | INTERNSHIP B                                                 | 0.5     |
|                                                                                                       |                                             |         |                                                                                                                    |                                             |         | 7818                                                                                                                           | INTERNSHIP DP A                                              | 1.0     |
|                                                                                                       |                                             |         |                                                                                                                    |                                             |         | 7819                                                                                                                           | INTERNSHIP DP B                                              | 1.0     |
|                                                                                                       |                                             |         |                                                                                                                    |                                             |         | 7822                                                                                                                           | INTERNSHIP TP A                                              | 1.5     |
|                                                                                                       |                                             |         |                                                                                                                    |                                             |         | 7823                                                                                                                           | INTERNSHIP TP B                                              | 1.5     |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 10.0350.0, OASIS # PG*

**ACADEMY OF HEALTH PROFESSIONS AND BIOSCIENCES**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

2.0 CREDIT FROM GROUP A + 1.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                                              |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                                                 |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                                 |         |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------|
| Course #                                                                                              | Course Name                                  | Credits | Course #                                                                                                           | Course Name                                     | Credits | Course #                                                                                                                       | Course Name                                     | Credits |
| 4042                                                                                                  | STRUCTURES AND FUNCTION OF THE HUMAN BODY A  | 0.5     | 3684                                                                                                               | FUNDAMENTALS OF PHARMACY A                      | 0.5     | 3869                                                                                                                           | INTERN BIO MED                                  | 0.5     |
| 4043                                                                                                  | STRUCTURES AND FUNCTION OF THE HUMAN BODY B  | 0.5     | 3685                                                                                                               | FUNDAMENTALS OF PHARMACY B                      | 0.5     | 3870                                                                                                                           | COLLEGE BIO MED                                 | 0.5     |
| 4044                                                                                                  | FOUNDATIONS OF MEDICINE AND HEALTH SCIENCE A | 0.5     | 3887                                                                                                               | PHYS REHAB SCI A                                | 0.5     | 3875                                                                                                                           | RESRCH BIO MED A                                | 0.5     |
| 4045                                                                                                  | FOUNDATIONS OF MEDICINE AND HEALTH SCIENCE B | 0.5     | 3888                                                                                                               | PHYS REHAB SCI B                                | 0.5     | 3876                                                                                                                           | RESRCH BIO MED B                                | 0.5     |
|                                                                                                       |                                              |         | 3889                                                                                                               | MEDICAL SCIENCE WITH CLINICAL APPLICATIONS DP A | 1.0     | 3879                                                                                                                           | COL HLTH BIO A                                  | 0.5     |
|                                                                                                       |                                              |         |                                                                                                                    |                                                 |         | 3880                                                                                                                           | COL HLTH BIO B                                  | 0.5     |
|                                                                                                       |                                              |         |                                                                                                                    |                                                 |         | 5415                                                                                                                           | INTERN MED CAR                                  | 0.5     |
|                                                                                                       |                                              |         |                                                                                                                    |                                                 |         | 3890                                                                                                                           | MEDICAL SCIENCE WITH CLINICAL APPLICATIONS DP B | 1.0     |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*For office use only: CIP # 51.1103.4, OASIS # HP*

**BIOMEDICAL SCIENCES, PROJECT LEAD THE WAY (PTLW)**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

2.0 CREDIT FROM GROUP A + 1.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                                     |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                         |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                         |         |
|-------------------------------------------------------------------------------------------------------|-------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------|-------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|
| Course #                                                                                              | Course Name                         | Credits | Course #                                                                                                           | Course Name             | Credits | Course #                                                                                                                       | Course Name             | Credits |
| 3681                                                                                                  | HUMAN BODY SYS A                    | 0.5     | 5375                                                                                                               | MEDICAL INTERVENTIONS A | 0.5     | 3885                                                                                                                           | BIOMEDICAL INNOVATION A | 0.5     |
| 3682                                                                                                  | HUMAN BODY SYS B                    | 0.5     | 5376                                                                                                               | MEDICAL INTERVENTIONS B | 0.5     | 3886                                                                                                                           | BIOMEDICAL INNOVATION B | 0.5     |
| 3881                                                                                                  | PRINCIPALS OF BIOMEDICAL SCIENCES A | 0.5     |                                                                                                                    |                         |         |                                                                                                                                |                         |         |
| 3882                                                                                                  | PRINCIPALS OF BIOMEDICAL SCIENCES B | 0.5     |                                                                                                                    |                         |         |                                                                                                                                |                         |         |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 51.1150.0, OASIS # BO*

**BIOTECHNOLOGY**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 1.0 CREDITS FROM GROUP B + 2.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                  |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                  |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|------------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name      | Credits | Course #                                                                                                                       | Course Name      | Credits |
| 3867                                                                                                  | MOL BIOTECH DP A | 1.0     | 3868                                                                                                               | MOL BIOTECH DP B | 1.0     | 3606                                                                                                                           | IB BIOLOGY DP A  | 1.0     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3607                                                                                                                           | IB BIOLOGY DP B  | 1.0     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3641                                                                                                                           | AP BIOLOGY A     | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3642                                                                                                                           | AP BIOLOGY B     | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3651                                                                                                                           | AP BIOLOGY DP A  | 1.0     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3652                                                                                                                           | AP BIOLOGY DP B  | 1.0     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3659                                                                                                                           | AP ENVIR SCI A   | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3660                                                                                                                           | AP ENVIR SCI B   | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3741                                                                                                                           | AP CHEMISTRY A   | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3742                                                                                                                           | AP CHEMISTRY B   | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3746                                                                                                                           | IB CHEMISTRY A   | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3747                                                                                                                           | IB CHEMISTRY B   | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3751                                                                                                                           | AP CHEMSTRY DP A | 1.0     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3752                                                                                                                           | AP CHEMSTRY DP B | 1.0     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3761                                                                                                                           | ANAT & PHYSIOL A | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3762                                                                                                                           | ANAT & PHYSIOL B | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3864                                                                                                                           | FORENSIC SCI A   | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3865                                                                                                                           | FORENSIC SCI B   | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3869                                                                                                                           | INTERN BIO MED   | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3870                                                                                                                           | COLLEGE BIO MED  | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3871                                                                                                                           | SPECIAL TOPICS A | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3872                                                                                                                           | SPECIAL TOPICS B | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3875                                                                                                                           | RESRCH BIO MED A | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3876                                                                                                                           | RESRCH BIO MED B | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3879                                                                                                                           | COL HLTH BIO A   | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 3880                                                                                                                           | COL HLTH BIO B   | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 7813                                                                                                                           | INTERNSHIP A     | 0.5     |

|  |  |      |                 |     |
|--|--|------|-----------------|-----|
|  |  | 7816 | INTERNSHIP B    | 0.5 |
|  |  | 7818 | INTERNSHIP DP A | 1.0 |
|  |  | 7819 | INTERNSHIP DP B | 1.0 |
|  |  | 7822 | INTERNSHIP TP A | 1.5 |
|  |  | 7823 | INTERNSHIP TP B | 1.5 |

*Unlimited repeats*

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*FOR OFFICE USE ONLY: CIP # 26.1201.4, OASIS # BI*

**ACADEMY OF FINANCE**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 1.0 CREDIT FROM GROUP B + 2.0 CREDITS FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |              |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                               |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|--------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name  | Credits | Course #                                                                                                                       | Course Name                                   | Credits |
| 4137                                                                                                  | INTRO FIN SERVIC | 0.5     | 4111                                                                                                               | ACCOUNTING A | 0.5     | 2315                                                                                                                           | AP MACRO                                      | 0.5     |
| 4155                                                                                                  | FINMGMT APPLI A  | 0.5     | 4112                                                                                                               | ACCOUNTING B | 0.5     | 2316                                                                                                                           | AP MICRO                                      | 0.5     |
| 4156                                                                                                  | FINMGMT APPLI B  | 0.5     |                                                                                                                    |              |         | 2938                                                                                                                           | GUIDED RESEARCH—NATIONAL ACADEMY FOUNDATION A | 0.5     |
| 5450                                                                                                  | ENTREPRENEUR 1A  | 0.5     |                                                                                                                    |              |         | 2939                                                                                                                           | GUIDED RESEARCH—NATIONAL ACADEMY FOUNDATION B | 0.5     |
| 5451                                                                                                  | ENTREPRENEUR 1B  | 0.5     |                                                                                                                    |              |         | 4103                                                                                                                           | FINANCIAL PLAN                                | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 4104                                                                                                                           | BANKING & CREDIT                              | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 4106                                                                                                                           | ECON & FINANCE                                | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 4107                                                                                                                           | INTERN FINANCE                                | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 4113                                                                                                                           | ADV ACCT A HON                                | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 4114                                                                                                                           | ADV ACCT B HON                                | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 4138                                                                                                                           | SECURITIES INSUR                              | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 4139                                                                                                                           | IB BUS & MANAGE A                             | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 4140                                                                                                                           | IB BUS & MANAGE B                             | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 5720                                                                                                                           | INTERN NAF                                    | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 7302                                                                                                                           | DUAL CREDIT ACCOUNTING                        | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 7303                                                                                                                           | DUAL CREDIT ADVANCED ACCOUNTING               | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 7310                                                                                                                           | DUAL CREDIT BUSINESS                          | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 7311                                                                                                                           | DUAL CREDIT ADVANCED BUSINESS                 | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 7320                                                                                                                           | DUAL CREDIT ECONOMICS                         | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 7321                                                                                                                           | DUAL CREDIT ADVANCED ECONOMICS                | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 7326                                                                                                                           | DUAL CREDIT ENTREPRENEUR                      | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |              |         | 7327                                                                                                                           | DUAL CREDIT ADVANCED ENTREPRENEUR             | 0.5     |

|  |  |      |                             |     |
|--|--|------|-----------------------------|-----|
|  |  | 7354 | DUAL CREDIT SPEECH          | 0.5 |
|  |  | 7355 | DUAL CREDIT ADVANCED SPEECH | 0.5 |
|  |  | 7813 | INTERNSHIP A                | 0.5 |
|  |  | 7816 | INTERNSHIP B                | 0.5 |
|  |  | 7818 | INTERNSHIP DP A             | 1.0 |
|  |  | 7819 | INTERNSHIP DP B             | 1.0 |
|  |  | 7822 | INTERNSHIP TP A             | 1.5 |
|  |  | 7823 | INTERNSHIP TP B             | 1.5 |

*\* Unlimited repeats*

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*FOR OFFICE USE ONLY: CIP # 52.0850.4, OASIS # AF*

**ACCOUNTING**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                 |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                           |         |
|-------------------------------------------------------------------------------------------------------|-----------------|---------|--------------------------------------------------------------------------------------------------------------------|----------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------|
| Course #                                                                                              | Course Name     | Credits | Course #                                                                                                           | Course Name    | Credits | Course #                                                                                                                       | Course Name                               | Credits |
| 5450                                                                                                  | ENTREPRENEUR 1A | 0.5     | 4111                                                                                                               | ACCOUNTING A   | 0.5     | 2315                                                                                                                           | AP MACRO                                  | 0.5     |
| 5451                                                                                                  | ENTREPRENEUR 1B | 0.5     | 4112                                                                                                               | ACCOUNTING B   | 0.5     | 2316                                                                                                                           | AP MICRO                                  | 0.5     |
|                                                                                                       |                 |         | 4113                                                                                                               | ADV ACCT A HON | 0.5     | 4046                                                                                                                           | GUIDED RESEARCH—BUSINESS ADMINISTRATION A | 0.5     |
|                                                                                                       |                 |         | 4114                                                                                                               | ADV ACCT B HON | 0.5     | 4047                                                                                                                           | GUIDED RESEARCH—BUSINESS ADMINISTRATION B | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 4139                                                                                                                           | IB BUS & MANAGE A                         | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 4140                                                                                                                           | IB BUS & MANAGE B                         | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 4155                                                                                                                           | FINMGMT APPLI A                           | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 4156                                                                                                                           | FINMGMT APPLI B                           | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 4158                                                                                                                           | PERSONAL FINANCE                          | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 5471                                                                                                                           | INTERN BUSINESS                           | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 7302                                                                                                                           | DUAL CREDIT ACCOUNTING                    | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 7303                                                                                                                           | DUAL CREDIT ADVANCED ACCOUNTING           | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 7310                                                                                                                           | DUAL CREDIT BUSINESS                      | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 7311                                                                                                                           | DUAL CREDIT ADVANCED BUSINESS             | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 7320                                                                                                                           | DUAL CREDIT ECONOMICS                     | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 7321                                                                                                                           | DUAL CREDIT ADVANCED ECONOMICS            | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 7326                                                                                                                           | DUAL CREDIT ENTREPRENEUR                  | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 7327                                                                                                                           | DUAL CREDIT ADVANCED ENTREPRENEUR         | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 7813                                                                                                                           | INTERNSHIP A                              | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 7816                                                                                                                           | INTERNSHIP B                              | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 7818                                                                                                                           | INTERNSHIP DP A                           | 1.0     |
|                                                                                                       |                 |         |                                                                                                                    |                |         | 7819                                                                                                                           | INTERNSHIP DP B                           | 1.0     |

|  |  |      |                 |     |
|--|--|------|-----------------|-----|
|  |  | 7822 | INTERNSHIP TP A | 1.5 |
|  |  | 7823 | INTERNSHIP TP B | 1.5 |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 52.0305.4, OASIS # AC*

**BUSINESS ADMINISTRATION**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDITS FROM GROUP A + 2.0 CREDIT FROM GROUP B + 1.0 CREDITS FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                    |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                 |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                            |         |
|-------------------------------------------------------------------------------------------------------|--------------------|---------|--------------------------------------------------------------------------------------------------------------------|-----------------|---------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|
| Course #                                                                                              | Course Name        | Credits | Course #                                                                                                           | Course Name     | Credits | Course #                                                                                                                       | Course Name                                | Credits |
| 2903                                                                                                  | SOFT APP DESGN A   | 0.5     | 4111                                                                                                               | ACCOUNTING A    | 0.5     | 2315                                                                                                                           | AP MACRO                                   | 0.5     |
| 2904                                                                                                  | SOFT APP DESGN B   | 0.5     | 4112                                                                                                               | ACCOUNTING B    | 0.5     | 2316                                                                                                                           | AP MICRO                                   | 0.5     |
| 2905                                                                                                  | ADV SW APP DSN A   | 0.5     | 5450                                                                                                               | ENTREPRENEUR 1A | 0.5     | 4046                                                                                                                           | GUIDED RESEARCH—BUSINESS ADMINISTRATION A  | 0.5     |
| 2906                                                                                                  | ADV SW APP DSN B   | 0.5     | 5451                                                                                                               | ENTREPRENEUR 1B | 0.5     | 4047                                                                                                                           | GUIDED RESEARCH—BUSINESS ADMINISTRATION B  | 0.5     |
| 4055                                                                                                  | SOFT APP MANG A    | 0.5     |                                                                                                                    |                 |         | 4135                                                                                                                           | ENTREPRENEUR 2                             | 0.5     |
| 4056                                                                                                  | SOFT APP MANG B    | 0.5     |                                                                                                                    |                 |         | 4139                                                                                                                           | IB BUS & MANAGE A                          | 0.5     |
| 4131                                                                                                  | ECON & BUS LAW A   | 0.5     |                                                                                                                    |                 |         | 4140                                                                                                                           | IB BUS & MANAGE B                          | 0.5     |
| 4132                                                                                                  | ECON & BUS LAW B   | 0.5     |                                                                                                                    |                 |         | 5471                                                                                                                           | INTERN BUSINESS                            | 0.5     |
| 4133                                                                                                  | ECON & BUS LAWSS A | 0.5     |                                                                                                                    |                 |         | 7302                                                                                                                           | DUAL CREDIT ACCOUNTING                     | 0.5     |
| 4134                                                                                                  | ECON & BUS LAWSS B | 0.5     |                                                                                                                    |                 |         | 7303                                                                                                                           | DUAL CREDIT ADVANCED ACCOUNTING            | 0.5     |
| 4155                                                                                                  | FINMGMT APPLI A    | 0.5     |                                                                                                                    |                 |         | 7310                                                                                                                           | DUAL CREDIT BUSINESS                       | 0.5     |
| 4156                                                                                                  | FINMGMT APPLI B    | 0.5     |                                                                                                                    |                 |         | 7311                                                                                                                           | DUAL CREDIT ADVANCED BUSINESS              | 0.5     |
| 4158                                                                                                  | PERSONAL FINANCE   | 0.5     |                                                                                                                    |                 |         | 7312                                                                                                                           | DUAL CREDIT COMPUTER APPLICATIONS          | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | 7313                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER APPLICATIONS | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | 7320                                                                                                                           | DUAL CREDIT ECONOMICS                      | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | 7321                                                                                                                           | DUAL CREDIT ADVANCED ECONOMICS             | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | 7326                                                                                                                           | DUAL CREDIT ENTREPRENEUR                   | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | 7327                                                                                                                           | DUAL CREDIT ADVANCED ENTREPRENEUR          | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | 7813                                                                                                                           | INTERNSHIP A                               | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | 7816                                                                                                                           | INTERNSHIP B                               | 0.5     |

|  |  |      |                 |     |
|--|--|------|-----------------|-----|
|  |  | 7818 | INTERNSHIP DP A | 1.0 |
|  |  | 7819 | INTERNSHIP DP B | 1.0 |
|  |  | 7822 | INTERNSHIP TP A | 1.5 |
|  |  | 7823 | INTERNSHIP TP B | 1.5 |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 52.0451.0, OASIS # BF*

**MARKETING**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 1.0 CREDITS FROM GROUP B + 2.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                 |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                            |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|-----------------|---------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name     | Credits | Course #                                                                                                                       | Course Name                                | Credits |
| 2903                                                                                                  | SOFT APP DESGN A | 0.5     | 5431                                                                                                               | MARKETING A     | 0.5     | 2315                                                                                                                           | AP MACRO                                   | 0.5     |
| 2906                                                                                                  | SOFT APP DESGN B | 0.5     | 5432                                                                                                               | MARKETING B     | 0.5     | 2316                                                                                                                           | AP MICRO                                   | 0.5     |
| 4155                                                                                                  | FINMGMT APPLI A  | 0.5     | 5450                                                                                                               | ENTREPRENEUR 1A | 0.5     | 2330                                                                                                                           | AP PSYCH A                                 | 0.5     |
| 4156                                                                                                  | FINMGMT APPLI B  | 0.5     | 5451                                                                                                               | ENTREPRENEUR 1B | 0.5     | 2331                                                                                                                           | AP PSYCH B                                 | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 4046                                                                                                                           | GUIDED RESEARCH—BUSINESS ADMINISTRATION A  | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 4047                                                                                                                           | GUIDED RESEARCH- BUSINESS ADMINISTRATION B | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 4139                                                                                                                           | IB BUS & MANAGE A                          | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 4140                                                                                                                           | IB BUS & MANAGE B                          | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 5433                                                                                                                           | ADV MARKETING A                            | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 5434                                                                                                                           | ADV MARKETING B                            | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 5471                                                                                                                           | INTERN BUSINESS                            | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 7302                                                                                                                           | DUAL CREDIT ACCOUNTING                     | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 7303                                                                                                                           | DUAL CREDIT ADVANCED ACCOUNTING            | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 7310                                                                                                                           | DUAL CREDIT BUSINESS                       | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 7311                                                                                                                           | DUAL CREDIT ADVANCED BUSINESS              | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 7320                                                                                                                           | DUAL CREDIT ECONOMICS                      | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 7321                                                                                                                           | DUAL CREDIT ADVANCED ECONOMICS             | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 7326                                                                                                                           | DUAL CREDIT ENTREPRENEUR                   | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         |                                                                                                                                | DUAL CREDIT ADVANCED ENTREPRENEUR          | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 7813                                                                                                                           | INTERNSHIP A                               | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 7816                                                                                                                           | INTERNSHIP B                               | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 7818                                                                                                                           | INTERNSHIP DP A                            | 1.0     |

|  |  |      |                 |     |
|--|--|------|-----------------|-----|
|  |  | 7819 | INTERNSHIP DP B | 1.0 |
|  |  | 7822 | INTERNSHIP TP A | 1.5 |
|  |  | 7823 | INTERNSHIP TP B | 1.5 |

*\* Unlimited repeats*

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*FOR OFFICE USE ONLY: CIP # 52.1451.0, OASIS # MK*

**COLLEGE AND CAREER RESEARCH AND DEVELOPMENT**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2015–2016 SCHOOL YEAR**

1.0 CREDITS FROM GROUP A + 1.0 CREDITS FROM GROUP B + 2.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                  |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                  |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|------------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name      | Credits | Course #                                                                                                                       | Course Name      | Credits |
| 8092                                                                                                  | COLLEGE CAREER A | 0.5     | 8065                                                                                                               | CAREER SEMINAR A | 0.5     | 5441                                                                                                                           | SITE WK EXP DP A | 1.0     |
| 8093                                                                                                  | COLLEGE CAREER B | 0.5     | 8066                                                                                                               | CAREER SEMINAR B | 0.5     | 5442                                                                                                                           | SITE WK EXP DP B | 1.0     |

*\* Unlimited repeats*

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*FOR OFFICE USE ONLY: CIP # 86.0000.0, OASIS # CCRD*

**PRINCIPALS OF ARCHITECTURE AND CAD TECHNOLOGY**

**REQUIREMENTS FOR PROGRAM COMPLETION**  
**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**  
 4.0 CREDITS FROM GROUP A  
 OR 3.0 CREDITS FROM GROUP A + 1.0 CREDIT FROM GROUP B OR GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                               |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                   |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-------------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name                   | Credits | Course #                                                                                                                       | Course Name       | Credits |
| 5103                                                                                                  | ARCH DRAFTING TP | 1.5     | 5106                                                                                                               | RESIDENT DESN TP              | 1.5     | 5707                                                                                                                           | PRIN ARCH INTERN* | 0.5     |
| 5104                                                                                                  | CAD TECHNLOGY TP | 1.5     | 5107                                                                                                               | ADV CAD APPL TP               | 1.5     |                                                                                                                                |                   |         |
|                                                                                                       |                  |         | 5680                                                                                                               | CONSTR MGT TP 1A <sup>1</sup> | 1.5     |                                                                                                                                |                   |         |
|                                                                                                       |                  |         | 5681                                                                                                               | CONSTR MGT TP 1B <sup>1</sup> | 1.5     |                                                                                                                                |                   |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                   |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                   |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                   |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                   |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                   |         |

\* *Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 15.1303.0, OASIS # DR*

<sup>1</sup> Course offered at Montgomery College, Rockville Campus

**CARPENTRY**

**REQUIREMENTS FOR PROGRAM COMPLETION**  
**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**  
 4.0 CREDITS FROM GROUP A  
 OR 3.0 CREDITS FROM GROUP A + 1.0 CREDIT FROM GROUP B OR GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                               |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                   |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-------------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name                   | Credits | Course #                                                                                                                       | Course Name       | Credits |
| 5561                                                                                                  | CONSTR TECH TP A | 1.5     | 5639                                                                                                               | CARPENTRY TP 2A               | 1.5     | 5705                                                                                                                           | CARPENTRY INTERN* | 0.5     |
| 5562                                                                                                  | CONSTR TECH TP B | 1.5     | 5640                                                                                                               | CARPENTRY TP 2B               | 1.5     | 5641                                                                                                                           | CARPENTRY TP 3A   | 1.5     |
| 5100                                                                                                  | CARPENTRY TP 1A  | 1.5     | 5680                                                                                                               | CONSTR MGT TP 1A <sup>1</sup> | 1.5     | 5642                                                                                                                           | CARPENTRY TP 3B   | 1.5     |
| 5101                                                                                                  | CARPENTRY TP 1B  | 1.5     | 5681                                                                                                               | CONSTR MGT TP 1B <sup>1</sup> | 1.5     |                                                                                                                                |                   |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                   |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                   |         |

\* *Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 46.5200.0, OASIS # CA*

<sup>1</sup> Course offered at Montgomery College, Rockville Campus

**ELECTRICITY**

**REQUIREMENTS FOR PROGRAM COMPLETION**  
**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**  
 4.0 CREDITS FROM GROUP A  
 OR 3.0 CREDITS FROM GROUP A + 1.0 CREDIT FROM GROUP B OR GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                               |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                  |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|------------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name                   | Credits | Course #                                                                                                                       | Course Name      | Credits |
| 5561                                                                                                  | CONSTR TECH TP A | 1.5     | 5595                                                                                                               | ELEC/CONST TP 2A              | 1.5     | 5708                                                                                                                           | ELECTRIC INTERN* | 0.5     |
| 5562                                                                                                  | CONSTR TECH TP B | 1.5     | 5596                                                                                                               | ELEC/CONST TP 2B              | 1.5     |                                                                                                                                |                  |         |
| 5109                                                                                                  | ELEC/CONST TP 1A | 1.5     | 5680                                                                                                               | CONSTR MGT TP 1A <sup>1</sup> | 1.5     |                                                                                                                                |                  |         |
| 5110                                                                                                  | ELEC/CONST TP 1B | 1.5     | 5681                                                                                                               | CONSTR MGT TP 1B <sup>1</sup> | 1.5     |                                                                                                                                |                  |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                  |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                  |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                  |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                  |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                  |         |

\* *Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 46.5300.0, OASIS # EL*

<sup>1</sup> Course offered at Montgomery College, Rockville Campus

CONSTRUCTION AND DEVELOPMENT

**HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)**

**REQUIREMENTS FOR PROGRAM COMPLETION**  
**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**  
 4.0 CREDITS FROM GROUP A  
 OR 3.0 CREDITS FROM GROUP A + 1.0 CREDIT FROM GROUP B OR GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                  |                  | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |              |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name      | Credits          | Course #                                                                                                                       | Course Name  | Credits |
| 5561                                                                                                  | CONSTR TECH TP A | 1.5     | 5127                                                                                                               | HVAC TP 2A       | 1.5              | 5711                                                                                                                           | HVAC INTERN* | 0.5     |
| 5562                                                                                                  | CONSTR TECH TP B | 1.5     | 5128                                                                                                               | HVAC TP 2B       | 1.5              |                                                                                                                                |              |         |
| 5123                                                                                                  | HVAC TP 1A       | 1.5     | 5680                                                                                                               | CONSTR MGT TP 1A | 1.5 <sup>1</sup> |                                                                                                                                |              |         |
| 5129                                                                                                  | HVAC TP 1B       | 1.5     | 5681                                                                                                               | CONSTR MGT TP 1B | 1.5 <sup>1</sup> |                                                                                                                                |              |         |
|                                                                                                       |                  |         |                                                                                                                    |                  |                  |                                                                                                                                |              |         |
|                                                                                                       |                  |         |                                                                                                                    |                  |                  |                                                                                                                                |              |         |
|                                                                                                       |                  |         |                                                                                                                    |                  |                  |                                                                                                                                |              |         |
|                                                                                                       |                  |         |                                                                                                                    |                  |                  |                                                                                                                                |              |         |

\* Unlimited repeats

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 47.5200.0, OASIS # HE*

<sup>1</sup> Course offered at Montgomery College, Rockville Campus

**MASONRY**

**REQUIREMENTS FOR PROGRAM COMPLETION**  
**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**  
 4.0 CREDITS FROM GROUP A OR  
 3.0 CREDITS FROM GROUP A + 1.0 CREDIT FROM GROUP B OR GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                               |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                 |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name                   | Credits | Course #                                                                                                                       | Course Name     | Credits |
| 5561                                                                                                  | CONSTR TECH TP A | 1.5     | 5565                                                                                                               | MASONRY TP 2A                 | 1.5     | 5714                                                                                                                           | MASONRY INTERN* | 0.5     |
| 5562                                                                                                  | CONSTR TECH TP B | 1.5     | 5566                                                                                                               | MASONRY TP 2B                 | 1.5     |                                                                                                                                |                 |         |
| 5567                                                                                                  | MASONRY TP 1A    | 1.5     | 5680                                                                                                               | CONSTR MGT TP 1A <sup>1</sup> | 1.5     |                                                                                                                                |                 |         |
| 5568                                                                                                  | MASONRY TP 1B    | 1.5     | 5681                                                                                                               | CONSTR MGT TP 1B <sup>1</sup> | 1.5     |                                                                                                                                |                 |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                 |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                 |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                 |         |

\* *Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 46.5100.0, OASIS # MS*

<sup>1</sup> Course offered at Montgomery College, Rockville Campus

CONSTRUCTION AND DEVELOPMENT

**PLUMBING**

**REQUIREMENTS FOR PROGRAM COMPLETION**  
**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**  
 4.0 CREDITS FROM GROUP A OR  
 3.0 CREDITS FROM GROUP A + 1.0 CREDIT FROM GROUP B OR GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                               |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                  |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|------------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name                   | Credits | Course #                                                                                                                       | Course Name      | Credits |
| 5561                                                                                                  | CONSTR TECH TP A | 1.5     | 5605                                                                                                               | PLUMBING TP 2A                | 1.5     | 5716                                                                                                                           | PLUMBING INTERN* | 0.5     |
| 5562                                                                                                  | CONSTR TECH TP B | 1.5     | 5606                                                                                                               | PLUMBING TP 2B                | 1.5     |                                                                                                                                |                  |         |
| 5607                                                                                                  | PLUMBING TP 1A   | 1.5     | 5680                                                                                                               | CONSTR MGT TP 1A <sup>1</sup> | 1.5     |                                                                                                                                |                  |         |
| 5608                                                                                                  | PLUMBING TP 1B   | 1.5     | 5681                                                                                                               | CONSTR MGT TP 1B <sup>1</sup> | 1.5     |                                                                                                                                |                  |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                  |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                  |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                  |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                  |         |
|                                                                                                       |                  |         |                                                                                                                    |                               |         |                                                                                                                                |                  |         |

\* *Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 46.5500.0, OASIS # PL*

<sup>1</sup> Course offered at Montgomery College, Rockville Campus

**EARLY CHILD DEVELOPMENT**

**REQUIREMENTS FOR PROGRAM COMPLETION  
FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 1.0 CREDIT FROM GROUP B + 1.0 CREDIT FROM GROUP C + 1.0 CREDIT FROM GROUP D

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                 |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                  |         | GROUP C<br>Additional Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                  |         | GROUP D<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                               |         |
|-------------------------------------------------------------------------------------------------------|-----------------|---------|--------------------------------------------------------------------------------------------------------------------|------------------|---------|-------------------------------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------|
| Course #                                                                                              | Course Name     | Credits | Course #                                                                                                           | Course Name      | Credits | Course #                                                                                                                      | Course Name      | Credits | Course #                                                                                                                       | Course Name                                   | Credits |
| 4847                                                                                                  | CHILD DEV 1A    | 0.5     | 4853                                                                                                               | CHILD DEV DP 2A  | 1.0     | 4868                                                                                                                          | CHILD DEV DP 3A  | 1.0     | 2330                                                                                                                           | AP PSYCH A                                    | 0.5     |
| 4848                                                                                                  | CHILD DEV 1B    | 0.5     | 4854                                                                                                               | CHILD DEV DP 2B  | 1.0     | 4869                                                                                                                          | CHILD DEV DP 3B  | 1.0     | 2331                                                                                                                           | AP PSYCH B                                    | 0.5     |
| 4851                                                                                                  | CHILD DEV DP 1A | 1.0     | 4880                                                                                                               | ADV CHILD DEV 2A | 0.5     | 4882                                                                                                                          | ADV CHILD DEV 3A | 0.5     | 4884                                                                                                                           | ADVANCED INTERNSHIP EDUCATION & CHILD STUDIES | 0.5     |
| 4852                                                                                                  | CHILD DEV DP 1B | 1.0     | 4881                                                                                                               | ADV CHILD DEV 2B | 0.5     | 4883                                                                                                                          | ADV CHILD DEV 3B | 0.5     | 5300                                                                                                                           | RESRCH EDUC A                                 | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                  |         |                                                                                                                               |                  |         | 5301                                                                                                                           | RESRCH EDUC B                                 | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                  |         |                                                                                                                               |                  |         | 7369                                                                                                                           | DUAL CREDIT ADVANCED EDUCATION                | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                  |         |                                                                                                                               |                  |         | 7813                                                                                                                           | INTERNSHIP A                                  | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                  |         |                                                                                                                               |                  |         | 7816                                                                                                                           | INTERNSHIP B                                  | 0.5     |
|                                                                                                       |                 |         |                                                                                                                    |                  |         |                                                                                                                               |                  |         | 7818                                                                                                                           | INTERNSHIP DP A                               | 1.0     |
|                                                                                                       |                 |         |                                                                                                                    |                  |         |                                                                                                                               |                  |         | 7819                                                                                                                           | INTERNSHIP DP B                               | 1.0     |
|                                                                                                       |                 |         |                                                                                                                    |                  |         |                                                                                                                               |                  |         | 7822                                                                                                                           | INTERNSHIP TP A                               | 1.5     |
|                                                                                                       |                 |         |                                                                                                                    |                  |         |                                                                                                                               |                  |         | 7823                                                                                                                           | INTERNSHIP TP B                               | 1.5     |

\* Unlimited repeats

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 20.0201.4, OASIS # CD*

**ADVANCED ENGINEERING PROJECT LEAD THE WAY (PLTW)**

**REQUIREMENTS FOR PROGRAM COMPLETION  
FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

2.0 CREDITS FROM GROUP A + 1.0 CREDIT FROM GROUP B + 1.0 CREDITS FROM GROUP C+ 1.0 CREDITS FROM GROUP D

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                 |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                 |         | GROUP D<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                    |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|-----------------|---------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name     | Credits | Course #                                                                                                                       | Course Name                     | Credits | Course #                                                                                                                       | Course Name        | Credits |
| 5150                                                                                                  | PRINS OF ENGIN A | 0.5     | 5156                                                                                                               | DIGITAL ELECT A | 0.5     | 3644                                                                                                                           | ENVIRONMENTAL SUSTAINABILITY A  | 0.5     | 5158                                                                                                                           | ENG DESIGN & DEV A | 0.5     |
| 5151                                                                                                  | PRINS OF ENGIN B | 0.5     | 5157                                                                                                               | DIGITAL ELECT B | 0.5     | 3645                                                                                                                           | ENVIRONMENTAL SUSTAINABILITY B  | 0.5     | 5159                                                                                                                           | ENG DESIGN & DEV B | 0.5     |
| 5152                                                                                                  | INTR ENGIN DES A | 0.5     |                                                                                                                    |                 |         | 4255                                                                                                                           | CIVIL ENGINEER & ARCHITECTURE A | 0.5     |                                                                                                                                |                    |         |
| 5153                                                                                                  | INTR ENGIN DES B | 0.5     |                                                                                                                    |                 |         | 4256                                                                                                                           | CIVIL ENGINEER & ARCHITECTURE B | 0.5     |                                                                                                                                |                    |         |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 5154                                                                                                                           | CMPR INT MANUF A                | 0.5     |                                                                                                                                |                    |         |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 5155                                                                                                                           | CMPR INT MANUF B                | 0.5     |                                                                                                                                |                    |         |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 5721                                                                                                                           | AEROSPACE ENG A                 | 0.5     |                                                                                                                                |                    |         |
|                                                                                                       |                  |         |                                                                                                                    |                 |         | 5722                                                                                                                           | AEROSPACE ENG B                 | 0.5     |                                                                                                                                |                    |         |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 15.5000.0, OASIS # AE*

**CERTIFIED PROFESSIONAL HORTICULTURIST**

REQUIREMENTS FOR PROGRAM COMPLETION  
**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

2.0 CREDITS FROM GROUP A + 1.0 CREDIT FROM GROUP B + 1.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                 |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                 |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                 |         |
|-------------------------------------------------------------------------------------------------------|-----------------|---------|--------------------------------------------------------------------------------------------------------------------|-----------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| Course #                                                                                              | Course Name     | Credits | Course #                                                                                                           | Course Name     | Credits | Course #                                                                                                                       | Course Name     | Credits |
| 5535                                                                                                  | FOUND OF HORT A | 0.5     | 5656                                                                                                               | LANDSCAPE DES A | 0.5     | 7813                                                                                                                           | INTERNSHIP A    | 0.5     |
| 5536                                                                                                  | FOUND OF HORT B | 0.5     | 5657                                                                                                               | LANDSCAPE DES B | 0.5     | 7816                                                                                                                           | INTERNSHIP B    | 0.5     |
| 5523                                                                                                  | PLANT PROD A    | 0.5     |                                                                                                                    |                 |         | 7818                                                                                                                           | INTERNSHIP DP A | 1.0     |
| 5524                                                                                                  | PLANT PROD B    | 0.5     |                                                                                                                    |                 |         | 7819                                                                                                                           | INTERNSHIP DP B | 1.0     |
|                                                                                                       |                 |         |                                                                                                                    |                 |         | 7822                                                                                                                           | INTERNSHIP TP A | 1.5     |
|                                                                                                       |                 |         |                                                                                                                    |                 |         | 7823                                                                                                                           | INTERNSHIP TP B | 1.5     |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 01.0650.4, OASIS # CPH*

**ACADEMY OF HOSPITALITY AND TOURISM**

**REQUIREMENTS FOR PROGRAM COMPLETION  
FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

2.0 CREDITS FROM GROUP A + 1.0 CREDIT FROM GROUP B + 1.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                  |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                 |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name      | Credits | Course #                                                                                                                       | Course Name     | Credits |
| 5398                                                                                                  | HOSP & TOURISM A | 0.5     | 4630                                                                                                               | INT CULTUR CUI A | 0.5     | 2315                                                                                                                           | AP MACRO        | 0.5     |
| 5399                                                                                                  | HOSP & TOURISM B | 0.5     | 4640                                                                                                               | INT CULTUR CUI B | 0.5     | 2316                                                                                                                           | AP MICRO        | 0.5     |
| 5403                                                                                                  | TRVL GEOG AOHT A | 0.5     | 5400                                                                                                               | ECONOMICS AOHT   | 0.5     | 5394                                                                                                                           | RESRCH HOSP A   | 0.5     |
| 5407                                                                                                  | TRVL GEOG AOHT B | 0.5     | 5401                                                                                                               | HOSP FOR AOHT    | 0.5     | 5395                                                                                                                           | RESRCH HOSP B   | 0.5     |
|                                                                                                       |                  |         | 5402                                                                                                               | SYSTEMS FOR AOHT | 0.5     | 5720                                                                                                                           | INTERN NAF*     | 0.5     |
|                                                                                                       |                  |         | 5450                                                                                                               | ENTREPRENEUR 1A  | 0.5     | 7813                                                                                                                           | INTERNSHIP A    | 0.5     |
|                                                                                                       |                  |         | 5451                                                                                                               | ENTREPRENEUR 1B  | 0.5     | 7816                                                                                                                           | INTERNSHIP B    | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 7818                                                                                                                           | INTERNSHIP DP A | 1.0     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 7819                                                                                                                           | INTERNSHIP DP B | 1.0     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 7822                                                                                                                           | INTERNSHIP TP A | 1.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 7823                                                                                                                           | INTERNSHIP TP B | 1.5     |

\* *Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 52.0950.4, OASIS # AH*

**COSMETOLOGY**

**REQUIREMENTS FOR PROGRAM COMPLETION  
FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

3.0 CREDITS FROM GROUP A + 3.0 CREDITS FROM GROUP B + 3.0 CREDITS FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                   |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                   |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                   |         |
|-------------------------------------------------------------------------------------------------------|-------------------|---------|--------------------------------------------------------------------------------------------------------------------|-------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-------------------|---------|
| Course #                                                                                              | Course Name       | Credits | Course #                                                                                                           | Course Name       | Credits | Course #                                                                                                                       | Course Name       | Credits |
| 5583                                                                                                  | COSMETOLOGY TP 1A | 1.5     | 5645                                                                                                               | COSMETOLOGY TP 2A | 1.5     | 5587                                                                                                                           | COSMETOLOGY TP 3A | 1.5     |
| 5647                                                                                                  | COSMETOLOGY TP 1B | 1.5     | 5646                                                                                                               | COSMETOLOGY TP 2B | 1.5     | 5648                                                                                                                           | COSMETOLOGY TP 3B | 1.5     |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 12.0450.0, OASIS # CS*

**HOSPITALITY MANAGEMENT**

**REQUIREMENTS FOR PROGRAM COMPLETION  
FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 1.0 CREDIT FROM GROUP B + 2.0 CREDITS FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                  |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                                              |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name      | Credits | Course #                                                                                                                       | Course Name                                                  | Credits |
| 4630                                                                                                  | INT CULTUR CUI A | 0.5     | 4825                                                                                                               | CUL ESSENTIALS A | 0.5     | 4816                                                                                                                           | INTERNSHIP, HUMAN & CONSUMER SERVICES HOSPITALITY & TOURISM* | 0.5     |
| 4640                                                                                                  | INT CULTUR CUI B | 0.5     | 4826                                                                                                               | CUL ESSENTIALS B | 0.5     | 5394                                                                                                                           | RESRCH HOSP A                                                | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 5395                                                                                                                           | RESRCH HOSP B                                                | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 7813                                                                                                                           | INTERNSHIP A                                                 | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 7816                                                                                                                           | INTERNSHIP B                                                 | 0.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 7818                                                                                                                           | INTERNSHIP DP A                                              | 1.0     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 7819                                                                                                                           | INTERNSHIP DP B                                              | 1.0     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 7822                                                                                                                           | INTERNSHIP TP A                                              | 1.5     |
|                                                                                                       |                  |         |                                                                                                                    |                  |         | 7823                                                                                                                           | INTERNSHIP TP B                                              | 1.5     |

\* *Unlimited repeats*

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*FOR OFFICE USE ONLY: CIP # 52.0955.0, OASIS # HM*

**PROFESSIONAL RESTAURANT MANAGEMENT**

**REQUIREMENTS FOR PROGRAM COMPLETION  
FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

4.0 CREDITS FROM GROUP A OR 3.0 CREDITS FROM GROUP A + 1.0 CREDIT FROM GROUP B

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                  |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                                                             |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |             |         |
|-------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-------------|---------|
| Course #                                                                                              | Course Name      | Credits | Course #                                                                                                           | Course Name                                                 | Credits | Course #                                                                                                                       | Course Name | Credits |
| 4821                                                                                                  | RESTAURNT MGT 1A | 0.5     | 4816                                                                                                               | INTERNSHIP, HUMAN & CONSUMER SERVICES HOSPITALITY & TOURISM | 0.5     |                                                                                                                                |             |         |
| 4822                                                                                                  | RESTAURNT MGT 1B | 0.5     | 5394                                                                                                               | RESRCH HOSP A                                               | 0.5     |                                                                                                                                |             |         |
| 4823                                                                                                  | REST MGT DP 1A   | 1.0     | 5395                                                                                                               | RESRCH HOSP B                                               | 0.5     |                                                                                                                                |             |         |
| 4824                                                                                                  | REST MGT DP 1B   | 1.0     | 7341                                                                                                               | DUAL CREDIT ADVANCED FOOD MANAGEMENT                        | 0.5     |                                                                                                                                |             |         |
| 4831                                                                                                  | RESTAURNT MGT 2A | 0.5     | 7813                                                                                                               | INTERNSHIP A                                                | 0.5     |                                                                                                                                |             |         |
| 4832                                                                                                  | RESTAURNT MGT 2B | 0.5     | 7816                                                                                                               | INTERNSHIP B                                                | 0.5     |                                                                                                                                |             |         |
| 4834                                                                                                  | REST MGT TP 1A   | 1.5     | 7818                                                                                                               | INTERNSHIP DP A                                             | 1.0     |                                                                                                                                |             |         |
| 4835                                                                                                  | REST MGT TP 1B   | 1.5     | 7819                                                                                                               | INTERNSHIP DP B                                             | 1.0     |                                                                                                                                |             |         |
| 4837                                                                                                  | REST MGT TP 2A   | 1.5     | 7822                                                                                                               | INTERNSHIP TP A                                             | 1.5     |                                                                                                                                |             |         |
| 4838                                                                                                  | REST MGT TP 2B   | 1.5     | 7823                                                                                                               | INTERNSHIP TP B                                             | 1.5     |                                                                                                                                |             |         |
| 4841                                                                                                  | REST MGT DP 2A   | 1.0     |                                                                                                                    |                                                             |         |                                                                                                                                |             |         |
| 4842                                                                                                  | REST MGT DP 2B   | 1.0     |                                                                                                                    |                                                             |         |                                                                                                                                |             |         |

*\* Unlimited repeats*

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*FOR OFFICE USE ONLY: CIP # 12.0550.0, OASIS # RM*

**ACADEMY OF INFORMATION TECHNOLOGY: COMPUTER PROGRAMMING**

REQUIREMENTS FOR PROGRAM COMPLETION  
**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 **OR 2.0** CREDITS FROM GROUP A + 1.0 CREDITS FROM GROUP B + 1.0 **OR 2.0** CREDITS FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                    |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                 |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                                   |         |
|-------------------------------------------------------------------------------------------------------|--------------------|---------|--------------------------------------------------------------------------------------------------------------------|-----------------|---------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------|
| Course #                                                                                              | Course Name        | Credits | Course #                                                                                                           | Course Name     | Credits | Course #                                                                                                                       | Course Name                                       | Credits |
| 2405                                                                                                  | IB INFO TEC GS A   | 0.5     | 2901                                                                                                               | AP COMP PROG 2A | 0.5     | 2965                                                                                                                           | COMP PRG 3 ADV A                                  | 0.5     |
| 2406                                                                                                  | IB INFO TEC GS B   | 0.5     | 2902                                                                                                               | AP COMP PROG 2B | 0.5     | 2966                                                                                                                           | COMP PRG 3 ADV B                                  | 0.5     |
| 2922                                                                                                  | FOUND OF COMP SC A | 0.5     |                                                                                                                    |                 |         | 2938                                                                                                                           | GUIDED RESEARCH—NAF A                             | 0.5     |
| 2923                                                                                                  | FOUND OF COMP SC B | 0.5     |                                                                                                                    |                 |         | 2939                                                                                                                           | GUIDED RESEARCH—NAF B                             | 0.5     |
| 2924                                                                                                  | AP CS PRIN A       | 0.5     |                                                                                                                    |                 |         | 5719                                                                                                                           | ACD INFTEC INT A                                  | 0.5     |
| 2925                                                                                                  | AP CS PRIN B       | 0.5     |                                                                                                                    |                 |         | 5720                                                                                                                           | INTERNSHIP NAF                                    | 0.5     |
| 2989                                                                                                  | COMPUTER PROG 1A   | 0.5     |                                                                                                                    |                 |         | 7312                                                                                                                           | DUAL CREDIT COMPUTER APPLICATIONS                 | 0.5     |
| 2990                                                                                                  | COMPUTER PROG 1B   | 0.5     |                                                                                                                    |                 |         | 7313                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER APPLICATIONS        | 0.5     |
| 2818                                                                                                  | IB COMP SC 1 A     | 0.5     |                                                                                                                    |                 |         | 7314                                                                                                                           | DUAL CREDIT COMPUTER SCIENCE                      | 0.5     |
| 2918                                                                                                  | IB COMP SC 1 B     | 0.5     |                                                                                                                    |                 |         | 7315                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER SCIENCE             | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | TBD                                                                                                                            | MICROCOMPUTER OS (CYBERWATCH 130) A               | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | TBD                                                                                                                            | MICROCOMPUTER OS (CYBERWATCH 130) B               | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | TBD                                                                                                                            | ETHICS AND THE INFORMATION AGE (CYBERWATCH 130) A | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | TBD                                                                                                                            | ETHICS AND THE INFORMATION AGE (CYBERWATCH 130) B | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | 7813                                                                                                                           | INTERNSHIP A                                      | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | 7816                                                                                                                           | INTERNSHIP B                                      | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | 7818                                                                                                                           | INTERNSHIP DP A                                   | 1.0     |
|                                                                                                       |                    |         |                                                                                                                    |                 |         | 7819                                                                                                                           | INTERNSHIP DP B                                   | 1.0     |

|  |  |      |                 |     |
|--|--|------|-----------------|-----|
|  |  | 7822 | INTERNSHIP TP A | 1.5 |
|  |  | 7823 | INTERNSHIP TP B | 1.5 |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included

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**ACADEMY OF INFORMATION TECHNOLOGY: INFORMATION RESOURCE DESIGN**

REQUIREMENTS FOR PROGRAM COMPLETION  
**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                    |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                  |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                                   |         |
|-------------------------------------------------------------------------------------------------------|--------------------|---------|--------------------------------------------------------------------------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------|
| Course #                                                                                              | Course Name        | Credits | Course #                                                                                                           | Course Name      | Credits | Course #                                                                                                                       | Course Name                                       | Credits |
| 2405                                                                                                  | IB INFO TEC GS A   | 0.5     | 2936                                                                                                               | ADV WEB & DGTL A | 0.5     | 2901                                                                                                                           | AP COMP PROG 2A                                   | 0.5     |
| 2406                                                                                                  | IB INFO TEC GS B   | 0.5     | 2937                                                                                                               | ADV WEB & DGTL B | 0.5     | 2902                                                                                                                           | AP COMP PROG 2B                                   | 0.5     |
| 2922                                                                                                  | FOUND OF COMP SC A | 0.5     | 2991                                                                                                               | WEB SITE DVLP A  | 0.5     | 2938                                                                                                                           | GUIDED RESEARCH—NAF A                             | 0.5     |
| 2923                                                                                                  | FOUND OF COMP SC B | 0.5     | 2992                                                                                                               | WEB SITE DVLP B  | 0.5     | 2939                                                                                                                           | GUIDED RESEARCH—NAF B                             | 0.5     |
| 2924                                                                                                  | AP CS PRIN A       | 0.5     |                                                                                                                    |                  |         | 2965                                                                                                                           | COMPUTER PROG 3A                                  | 0.5     |
| 2925                                                                                                  | AP CS PRIN B       | 0.5     |                                                                                                                    |                  |         | 2966                                                                                                                           | COMPUTER PROG 3B                                  | 0.5     |
| 2989                                                                                                  | COMPUTER PROG 1A   | 0.5     |                                                                                                                    |                  |         | 5719                                                                                                                           | ACD INFTEC INT A                                  | 0.5     |
| 2990                                                                                                  | COMPUTER PROG 1B   | 0.5     |                                                                                                                    |                  |         | 5720                                                                                                                           | INTERN NAF                                        | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                  |         | 7312                                                                                                                           | DUAL CREDIT COMPUTER APPLICATIONS                 | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                  |         | 7313                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER APPLICATIONS        | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                  |         | 7314                                                                                                                           | DUAL CREDIT COMPUTER SCIENCE                      | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                  |         | 7315                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER SCIENCE             | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                  |         | TBD                                                                                                                            | MICROCOMPUTER OS (CYBERWATCH 130) A               | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                  |         | TBD                                                                                                                            | MICROCOMPUTER OS (CYBERWATCH 130) B               | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                  |         | TBD                                                                                                                            | ETHICS AND THE INFORMATION AGE (CYBERWATCH 130) A | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                  |         | TBD                                                                                                                            | ETHICS AND THE INFORMATION AGE (CYBERWATCH 130) B | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                  |         | 7813                                                                                                                           | INTERNSHIP A                                      | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                  |         | 7816                                                                                                                           | INTERNSHIP B                                      | 0.5     |

|  |  |      |                 |     |
|--|--|------|-----------------|-----|
|  |  | 7818 | INTERNSHIP DP A | 1.0 |
|  |  | 7819 | INTERNSHIP DP B | 1.0 |
|  |  | 7822 | INTERNSHIP TP A | 1.5 |
|  |  | 7823 | INTERNSHIP TP B | 1.5 |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

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**ACADEMY OF INFORMATION TECHNOLOGY: NETWORKING**

REQUIREMENTS FOR PROGRAM COMPLETION  
**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                    |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                                 |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                            |         |
|-------------------------------------------------------------------------------------------------------|--------------------|---------|--------------------------------------------------------------------------------------------------------------------|---------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|
| Course #                                                                                              | Course Name        | Credits | Course #                                                                                                           | Course Name                     | Credits | Course #                                                                                                                       | Course Name                                | Credits |
| 2405                                                                                                  | IB INFO TEC GS A   | 0.5     | 5611                                                                                                               | MICROCOMPUTER TECHNOLOGIES A    | 0.5     | 2938                                                                                                                           | GUIDED RESEARCH—NAF A                      | 0.5     |
| 2406                                                                                                  | IB INFO TEC GS B   | 0.5     | 5612                                                                                                               | MICROCOMPUTER TECHNOLOGIES B    | 0.5     | 2939                                                                                                                           | GUIDED RESEARCH—NAF B                      | 0.5     |
| <b>2922</b>                                                                                           | FOUND OF COMP SC A | 0.5     | 5613                                                                                                               | MICROCOMPUTER TECHNOLOGIES DP A | 1.0     | 4230                                                                                                                           | ADV NETWK MGT A                            | 0.5     |
| <b>2923</b>                                                                                           | FOUND OF COMP SC B | 0.5     | 5614                                                                                                               | MICROCOMPUTER TECHNOLOGIES DP B | 1.0     | 4231                                                                                                                           | ADV NETWK MGT B                            | 0.5     |
| <b>2924</b>                                                                                           | AP CS PRIN A       | 0.5     | 5615                                                                                                               | CMPTR LAN MGMT A                | 0.5     | 5617                                                                                                                           | NET ENGRMGMT DP A                          | 1.0     |
| <b>2925</b>                                                                                           | AP CS PRIN B       | 0.5     | 5616                                                                                                               | CMPTR LAN MGMT B                | 0.5     | 5618                                                                                                                           | NET ENGRMGMT DP B                          | 1.0     |
| 2989                                                                                                  | COMPUTER PROG 1A   | 0.5     | 5617                                                                                                               | NET ENG MGT DP A                | 1.0     | 5719                                                                                                                           | ACD INFTEC INT A                           | 0.5     |
| 2990                                                                                                  | COMPUTER PROG 1B   | 0.5     | 5618                                                                                                               | NET ENG MGT DP B                | 1.0     | 5720                                                                                                                           | INTERN NAF                                 | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                                 |         | 7312                                                                                                                           | DUAL CREDIT COMPUTER APPLICATIONS          | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                                 |         | 7313                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER APPLICATIONS | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                                 |         | 7314                                                                                                                           | DUAL CREDIT COMPUTER SCIENCE               | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                                 |         | 7315                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER SCIENCE      | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                                 |         | TBD                                                                                                                            | MICROCOMPUTER OS (CYBERWATCH 130) A        | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                                 |         | TBD                                                                                                                            | MICROCOMPUTER OS (CYBERWATCH 130) B        | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                                 |         | TBD                                                                                                                            | ETHICS AND THE INFO AGE (CYBERWATCH 130) A | 0.5     |

|  |  |      |                                               |     |
|--|--|------|-----------------------------------------------|-----|
|  |  | TBD  | ETHICS AND THE INFO AGE<br>(CYBERWATCH 130) B | 0.5 |
|  |  | 7813 | INTERNSHIP A                                  | 0.5 |
|  |  | 7816 | INTERNSHIP B                                  | 0.5 |
|  |  | 7818 | INTERNSHIP DP A                               | 1.0 |
|  |  | 7819 | INTERNSHIP DP B                               | 1.0 |
|  |  | 7822 | INTERNSHIP TP A                               | 1.5 |
|  |  | 7823 | INTERNSHIP TP B                               | 1.5 |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

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**CISCO ACADEMY**

**REQUIREMENTS FOR PROGRAM COMPLETION  
FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                    |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                                 |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                            |         |
|-------------------------------------------------------------------------------------------------------|--------------------|---------|--------------------------------------------------------------------------------------------------------------------|---------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|
| Course #                                                                                              | Course Name        | Credits | Course #                                                                                                           | Course Name                     | Credits | Course #                                                                                                                       | Course Name                                | Credits |
| 2405                                                                                                  | IB INFO TEC GS A   | 0.5     | 5611                                                                                                               | MICROCOMPUTER TECHNOLOGIES A    | 0.5     | 2907                                                                                                                           | INTERNSHIP INFO TECH                       | 0.5     |
| 2406                                                                                                  | IB INFO TEC GS B   | 0.5     | 5612                                                                                                               | MICROCOMPUTER TECHNOLOGIES B    | 0.5     | 4230                                                                                                                           | ADV NETWK MGT A                            | 0.5     |
| 2922                                                                                                  | FOUND OF COMP SC A | 0.5     | 5613                                                                                                               | MICROCOMPUTER TECHNOLOGIES DP A | 1.0     | 4231                                                                                                                           | ADV NETWK MGT B                            | 0.5     |
| 2923                                                                                                  | FOUND OF COMP SC B | 0.5     | 5614                                                                                                               | MICROCOMPUTER TECHNOLOGIES DP B | 1.0     | 5617                                                                                                                           | NET ENGRMGMT DP A                          | 1.0     |
| 2924                                                                                                  | AP CS PRIN A       | 0.5     | 5615                                                                                                               | CMPTR LAN MGMT A                | 0.5     | 5618                                                                                                                           | NET ENGRMGMT DP B                          | 1.0     |
| 2925                                                                                                  | AP CS PRIN B       | 0.5     | 5616                                                                                                               | CMPTR LAN MGMT B                | 0.5     | 7312                                                                                                                           | DUAL CREDIT COMPUTER APPLICATIONS          | 0.5     |
| 2989                                                                                                  | COMPUTER PROG 1A   | 0.5     | 5617                                                                                                               | NET ENG MGT DP A                | 1.0     | 7313                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER APPLICATIONS | 0.5     |
| 2990                                                                                                  | COMPUTER PROG 1B   | 0.5     | 5618                                                                                                               | NET ENG MGT DP B                | 1.0     | 7314                                                                                                                           | DUAL CREDIT COMPUTER SCIENCE               | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                                 |         | 7315                                                                                                                           | DUAL CREDIT ADVANCED COMPUTER SCIENCE      | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                                 |         | TBD                                                                                                                            | MICROCOMPUTER OS (CYBERWATCH 130) A        | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                                 |         | TBD                                                                                                                            | MICROCOMPUTER OS (CYBERWATCH 130) B        | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                                 |         | TBD                                                                                                                            | ETHICS AND THE INFO AGE (CYBERWATCH 130) A | 0.5     |
|                                                                                                       |                    |         |                                                                                                                    |                                 |         | TBD                                                                                                                            | ETHICS AND THE INFO AGE (CYBERWATCH 130) B | 0.5     |

|  |  |      |                 |     |
|--|--|------|-----------------|-----|
|  |  | 7813 | INTERNSHIP A    | 0.5 |
|  |  | 7816 | INTERNSHIP B    | 0.5 |
|  |  | 7818 | INTERNSHIP DP A | 1.0 |
|  |  | 7819 | INTERNSHIP DP B | 1.0 |
|  |  | 7822 | INTERNSHIP TP A | 1.5 |
|  |  | 7823 | INTERNSHIP TP B | 1.5 |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

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**NETWORK OPERATIONS**

**REQUIREMENTS FOR PROGRAM COMPLETION  
FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 3.0 CREDITS FROM GROUP B **OR**

3.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                                 |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                         |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                         |         |
|-------------------------------------------------------------------------------------------------------|---------------------------------|---------|--------------------------------------------------------------------------------------------------------------------|-------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|
| Course #                                                                                              | Course Name                     | Credits | Course #                                                                                                           | Course Name             | Credits | Course #                                                                                                                       | Course Name             | Credits |
| 2901                                                                                                  | AP COMP PROG 2A                 | 0.5     | 4202                                                                                                               | NETWORK OPERATIONS A TP | 1.5     | 4187                                                                                                                           | NET OPS INTERNSHIP      | 0.5     |
| 2902                                                                                                  | AP COMP PROG 2B                 | 0.5     | 4203                                                                                                               | NETWORK OPERATIONS B TP | 1.5     | 4188                                                                                                                           | NET OPS RESEARCH        | 0.5     |
| 2964                                                                                                  | DSCVR PROG CON A                | 0.5     | 4242                                                                                                               | NETWORK OP DP 1B        | 1.0     | 4203                                                                                                                           | NETWORK OPERATIONS B TP | 1.5     |
| 2967                                                                                                  | DSCVR PROG CON B                | 0.5     | 4243                                                                                                               | NETWORK OP DP 1B        | 1.0     |                                                                                                                                |                         |         |
| 2989                                                                                                  | COMPUTER PROG 1A                | 0.5     | 4244                                                                                                               | NETWORK OP DP 2         | 1.0     |                                                                                                                                |                         |         |
| 2990                                                                                                  | COMPUTER PROG 1B                | 0.5     |                                                                                                                    |                         |         |                                                                                                                                |                         |         |
| 2991                                                                                                  | WEB SITE DVLP A                 | 0.5     |                                                                                                                    |                         |         |                                                                                                                                |                         |         |
| 2992                                                                                                  | WEB SITE DVLP B                 | 0.5     |                                                                                                                    |                         |         |                                                                                                                                |                         |         |
| 5156                                                                                                  | DIGITAL ELECT A                 | 0.5     |                                                                                                                    |                         |         |                                                                                                                                |                         |         |
| 5157                                                                                                  | DIGITAL ELECT B                 | 0.5     |                                                                                                                    |                         |         |                                                                                                                                |                         |         |
| 5611                                                                                                  | MICROCOMPUTER TECHNOLOGIES A    | 0.5     |                                                                                                                    |                         |         |                                                                                                                                |                         |         |
| 5612                                                                                                  | MICROCOMPUTER TECHNOLOGIES B    | 0.5     |                                                                                                                    |                         |         |                                                                                                                                |                         |         |
| 5613                                                                                                  | MICROCOMPUTER TECHNOLOGIES DP A | 1.0     |                                                                                                                    |                         |         |                                                                                                                                |                         |         |
| 5614                                                                                                  | MICROCOMPUTER TECHNOLOGIES DP B | 1.0     |                                                                                                                    |                         |         |                                                                                                                                |                         |         |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

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**COMPUTER SCIENCE**

**REQUIREMENTS FOR PROGRAM COMPLETION  
FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

(1.0 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C) OR  
(2.0 CREDITS FROM GROUP B + 2.0 CREDITS FROM GROUP C)

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                                   |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                                  |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                                    |         |
|-------------------------------------------------------------------------------------------------------|-----------------------------------|---------|--------------------------------------------------------------------------------------------------------------------|----------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Course #                                                                                              | Course Name                       | Credits | Course #                                                                                                           | Course Name                      | Credits | Course #                                                                                                                       | Course Name                                        | Credits |
| 2922                                                                                                  | FOUNDATIONS OF COMPUTER SCIENCE A | 0.5     | 2924                                                                                                               | AP COMPUTER SCIENCE PRINCIPLES A | 0.5     | TBD                                                                                                                            | MICROCOMPUTER OPERATING SYSTEMS (CYBERWATCH 130) A | 0.5     |
| 2923                                                                                                  | FOUNDATIONS OF COMPUTER SCIENCE B | 0.5     | 2925                                                                                                               | AP COMPUTER SCIENCE PRINCIPLES B | 0.5     | TBD                                                                                                                            | MICROCOMPUTER OPERATING SYSTEMS (CYBERWATCH 130) B | 0.5     |
|                                                                                                       |                                   |         | 2901                                                                                                               | AP COMPUTER PROGRAMMING 2 A      | 0.5     | TBD                                                                                                                            | ETHICS AND THE INFORMATION AGE (CYBERWATCH 130) A  | 0.5     |
|                                                                                                       |                                   |         | 2902                                                                                                               | AP COMPUTER PROGRAMMING 2 B      | 0.5     | TBD                                                                                                                            | ETHICS AND THE INFORMATION AGE (CYBERWATCH 130) B  | 0.5     |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 11.0250, OASIS # CO*

**JUSTICE, LAW AND SOCIETY**

**REQUIREMENTS FOR PROGRAM COMPLETION  
FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.0 CREDIT FROM GROUP A + 1.0 CREDIT FROM GROUP B + 2.0 CREDIT FROM GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |             |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                     |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                                     |         |
|-------------------------------------------------------------------------------------------------------|-------------|---------|--------------------------------------------------------------------------------------------------------------------|---------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------|
| Course #                                                                                              | Course Name | Credits | Course #                                                                                                           | Course Name         | Credits | Course #                                                                                                                       | Course Name                         | Credits |
| 2312                                                                                                  | LAW         | 0.5     | 5146                                                                                                               | LAW & ADM JUSTICE A | 0.5     | 2011                                                                                                                           | IB THEORY OF KNOWLEDGE 1<br>ESSAY A | 0.5     |
| 5148                                                                                                  | INTRO JLS A | 0.5     | 5147                                                                                                               | LAW & ADM JUSTICE B | 0.5     | 2012                                                                                                                           | IB THEORY OF KNOWLEDGE 1<br>ESSAY B | 0.5     |
| 5149                                                                                                  | INTRO JLS B | 0.5     |                                                                                                                    |                     |         | 2104                                                                                                                           | AP GOVPL US NSL A                   | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2105                                                                                                                           | AP GOVPL US NSL B                   | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2131                                                                                                                           | AP GOVPOL US                        | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2132                                                                                                                           | AP GOVPOL COMP A                    | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2141                                                                                                                           | INTL HUMAN RGHTS 1                  | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2142                                                                                                                           | INTL HUMAN RGHTS 2                  | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2145                                                                                                                           | AP GOVPOL COMP B                    | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2232                                                                                                                           | IB PSYCH A                          | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2233                                                                                                                           | IB PSYCH B                          | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2304                                                                                                                           | PSYCHOLOGY 1                        | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2305                                                                                                                           | SOCIOLOGY 1                         | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2311                                                                                                                           | PHILOSOPHY                          | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2313                                                                                                                           | PSYCHOLOGY 2                        | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2314                                                                                                                           | SOCIOLOGY 2                         | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2315                                                                                                                           | AP MACRO                            | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2316                                                                                                                           | AP MICRO                            | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2323                                                                                                                           | EXECUTIVE INTERNSHIP                | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2324                                                                                                                           | EXECUTIVE INTERNSHIP                | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2325                                                                                                                           | EXECUTIVE INTERNSHIP                | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2330                                                                                                                           | AP PSYCH A                          | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2331                                                                                                                           | AP PSYCH B                          | 0.5     |
|                                                                                                       |             |         |                                                                                                                    |                     |         | 2347                                                                                                                           | GLOBAL ISSUES A                     | 0.5     |

|  |  |      |                     |     |
|--|--|------|---------------------|-----|
|  |  | 2348 | GLOBAL ISSUES B     | 0.5 |
|  |  | 3864 | FORENSIC SCI A      | 0.5 |
|  |  | 3865 | FORENSIC SCI B      | 0.5 |
|  |  | 4131 | ECON & BUS LAW A    | 0.5 |
|  |  | 4132 | ECON & BUS LAW B    | 0.5 |
|  |  | 4133 | ECON & BUS LAW SS A | 0.5 |
|  |  | 4134 | ECON & BUS LAW SS B | 0.5 |
|  |  | 5134 | CNTMP ISS JUS DP    | 1.0 |
|  |  | 5144 | CONTMP ISS JUS A    | 0.5 |
|  |  | 5145 | CONTMP ISS JUS B    | 0.5 |
|  |  | 7813 | INTERNSHIP A        | 0.5 |
|  |  | 7816 | INTERNSHIP B        | 0.5 |
|  |  | 7818 | INTERNSHIP DP A     | 1.0 |
|  |  | 7819 | INTERNSHIP DP B     | 1.0 |
|  |  | 7822 | INTERNSHIP TP A     | 1.5 |
|  |  | 7823 | INTERNSHIP TP B     | 1.5 |

*\* Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 22.0000.4, OASIS # JL*

**AUTOMOTIVE TECHNOLOGY: AUTOMOTIVE COLLISION REPAIR/DEALERSHIP TRAINING**

REQUIREMENTS FOR PROGRAM COMPLETION  
**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

TRIPLE PERIOD: 3.0 CREDITS FROM GROUP A + 1.5 CREDITS FROM GROUP B OR GROUP C

DOUBLE PERIOD: 2.0 CREDITS FROM GROUP A + 2.0 CREDITS FROM GROUP B OR GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                   |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                   |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                       |         |
|-------------------------------------------------------------------------------------------------------|-------------------|---------|--------------------------------------------------------------------------------------------------------------------|-------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|
| Course #                                                                                              | Course Name       | Credits | Course #                                                                                                           | Course Name       | Credits | Course #                                                                                                                       | Course Name           | Credits |
| 5547                                                                                                  | AUTO BODY DP 1A   | 1.0     | 5549                                                                                                               | AUTO BODY DP 2A   | 1.0     | 5702                                                                                                                           | AUTO BODY INTERNSHIP* | 0.5     |
| 5548                                                                                                  | AUTO BODY DP 1B   | 1.0     | 5550                                                                                                               | AUTO BODY DP 2B   | 1.0     |                                                                                                                                |                       |         |
| 5553                                                                                                  | AUTO DL BOD TP 1A | 1.5     | 5551                                                                                                               | AUTO BODY DP 3A   | 1.0     |                                                                                                                                |                       |         |
| 5554                                                                                                  | AUTO DL BOD TP 1B | 1.5     | 5552                                                                                                               | AUTO BODY DP 3B   | 1.0     |                                                                                                                                |                       |         |
|                                                                                                       |                   |         | 5555                                                                                                               | AUTO DL BOD TP 2A | 1.5     |                                                                                                                                |                       |         |
|                                                                                                       |                   |         | 5556                                                                                                               | AUTO DL BOD TP 2B | 1.5     |                                                                                                                                |                       |         |

\* *Unlimited repeats*

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 47.0603.4, OASIS # AB*

**AUTOMOTIVE TECHNOLOGY: FOUNDATIONS OF AUTOMOTIVE TECHNOLOGY**

REQUIREMENTS FOR PROGRAM COMPLETION

**FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

1.5 OR 3.0 CREDITS FROM GROUP A AND 1.5 OR 3.0 CREDITS FROM GROUP B OR GROUP C

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                    |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                    |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                  |         |
|-------------------------------------------------------------------------------------------------------|--------------------|---------|--------------------------------------------------------------------------------------------------------------------|--------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|------------------|---------|
| Course #                                                                                              | Course Name        | Credits | Course #                                                                                                           | Course Name        | Credits | Course #                                                                                                                       | Course Name      | Credits |
| 5045                                                                                                  | FND AUTO TECH TP A | 1.5     | 5047                                                                                                               | AUTO TECH 1A       | 0.5     | 5701                                                                                                                           | ASAP INTERNSHIP* | 0.5     |
| 5046                                                                                                  | FND AUTO TECH TP B | 1.5     | 5048                                                                                                               | AUTO TECH 1B       | 0.5     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5049                                                                                                               | AUTO TECH DP 2A    | 1.0     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5050                                                                                                               | AUTO TECH DP 2B    | 1.0     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5061                                                                                                               | AUTO DL TECH TP 1A | 1.5     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5062                                                                                                               | AUTO DL TECH TP 1B | 1.5     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5064                                                                                                               | AUTO TECH DP 3A    | 1.0     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5065                                                                                                               | AUTO TECH DP 3B    | 1.0     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5067                                                                                                               | AUTO DL TECH TP 2A | 1.5     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5068                                                                                                               | AUTO DL TECH TP 2B | 1.5     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5072                                                                                                               | AUTO TECH DP 1A    | 1.0     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5073                                                                                                               | AUTO TECH DP 1B    | 1.0     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5547                                                                                                               | AUTO BODY DP 1A    | 1.0     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5548                                                                                                               | AUTO BODY DP 1B    | 1.0     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5549                                                                                                               | AUTO BODY DP 2A    | 1.0     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5550                                                                                                               | AUTO BODY DP 2B    | 1.0     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5551                                                                                                               | AUTO BODY DP 3A    | 1.0     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5552                                                                                                               | AUTO BODY DP 3B    | 1.0     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5553                                                                                                               | AUTO DL BOD TP 1A  | 1.5     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5554                                                                                                               | AUTO DL BOD TP 1B  | 1.5     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5555                                                                                                               | AUTO DL BOD TP 2A  | 1.5     |                                                                                                                                |                  |         |
|                                                                                                       |                    |         | 5556                                                                                                               | AUTO DL BOD TP 2B  | 1.5     |                                                                                                                                |                  |         |

\* Unlimited repeats

The Program of Study (POS) provides students with a planned, sequential program that blends academic, technical, and workplace skills to prepare for college or a career. The POS contains a minimum of four credits and includes relevant courses and a capstone experience such as an internship or a college course. Many POS may lead to the attainment of industry/professional certification (e.g., through formal assessments or course hours). POS are designed collaboratively with colleges, including Montgomery College, and some programs and courses have articulation agreements. An articulation agreement establishes the process for students to earn college credit for courses completed in high school. If there are articulation agreements associated with a POS, an award form will be included.

*FOR OFFICE USE ONLY: CIP # 47.9999.4, OASIS # AA*

**AUTOMOTIVE TECHNOLOGY/DEALERSHIP TRAINING**

**REQUIREMENTS FOR PROGRAM COMPLETION  
FOR STUDENTS ENTERING GRADE 9 DURING THE 2016–2017 SCHOOL YEAR**

| GROUP A<br>Foundation courses that provide core knowledge and skills needed for the Program of Study. |                    |         | GROUP B<br>Courses that extend academic, technical, and workplace skills to be successful in the Program of Study. |                    |         | GROUP C<br>Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course). |                       |         |
|-------------------------------------------------------------------------------------------------------|--------------------|---------|--------------------------------------------------------------------------------------------------------------------|--------------------|---------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|
| Course #                                                                                              | Course Name        | Credits | Course #                                                                                                           | Course Name        | Credits | Course #                                                                                                                       | Course Name           | Credits |
| 5061                                                                                                  | AUTO DL TECH TP 1A | 1.5     | 5049                                                                                                               | AUTO TECH DP 2A    | 1.0     | 5703                                                                                                                           | AUTO TECH INTERNSHIP* | 0.5     |
| 5062                                                                                                  | AUTO DL TECH TP 1B | 1.5     | 5050                                                                                                               | AUTO TECH DP 2B    | 1.0     |                                                                                                                                |                       |         |
| 5072                                                                                                  | AUTO TECH DP 1A    | 1.0     | 5064                                                                                                               | AUTO TECH DP 3A    | 1.0     |                                                                                                                                |                       |         |
| 5073                                                                                                  | AUTO TECH DP 1B    | 1.0     | 5065                                                                                                               | AUTO TECH DP 3B    | 1.0     |                                                                                                                                |                       |         |
|                                                                                                       |                    |         | 5067                                                                                                               | AUTO DL TECH TP 2A | 1.5     |                                                                                                                                |                       |         |
|                                                                                                       |                    |         | 5068                                                                                                               | AUTO DL TECH TP 2B | 1.5     |                                                                                                                                |                       |         |

\* *Unlimited repeats*

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*FOR OFFICE USE ONLY: CIP # 47.0645.0, OASIS # AT*