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 9th grade in the 2017−2018 school year.

MANUFACTURING, ENGINEERING, AND TECHNOLOGY CLUSTER

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CLUSTER

ADDITIONAL PROGRAM: COLLEGE AND CAREER REASEARCH AND DEVELOPMENT CLUSTER

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, MEDIA, AND COMMUNICATION

Arts, 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 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

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

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

CONSUMER SERVICES, HOSPITALITY, AND TOURISM

Programs in the 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, Professional Restaurant Management Culinary Arts (ACF)

ENVIRONMENTAL, AGRICULTURE, 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

HEALTH, AND BIOSCIENCES

Health, and Biosciences 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, Project Lead the Way: Biomedical Sciences, Biotechnology

HUMAN RESOURCE SERVICES

Early Child Development, 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

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

INFORMATION TECHNOLOGY

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 (NAF): IT Networking, Academy of Information Technology (NAF): IT Programming, Academy of Information Technology (NAF): Web Design, Cisco Networking Academy, Computer Science/Code.org, Network Operations

MANUFACTURING, ENGINEERING, AND TECHNOLOGY

Manufacturing, Engineering, and Technology 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.

Project Lead The Way (PLTW): Advanced Engineering

TRANSPORTATION TECHNOLOGIES

Information about the Transportation Technologies career cluster can be found on the Montgomery County Student Foundations website under the Construction Trades Foundation.

Automotive Collision Repair/Dealership Training, Automotive Technology/Dealership Training, Foundations of Automotive Technology

ADDITIONAL PROGRAM: 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

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 postsecondary 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

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/

MEDIA BROADCASTING: RADIO

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR
1.0 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

GROUP A — Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B — Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C — 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
						7822	INTERNSHIP TP A	1.5
						7823	INTERNSHIP TP B	1.5

* Unlimited repeats

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MEDIA BROADCASTING: TELEVISION

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR
1.0 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

GROUP A Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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

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MULTIMEDIA AND INTERACTIVE TECHNOLOGIES: MULTIMEDIA GAME

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR
1.0 CREDIT FROM GROUP A + 1.0 CREDIT FROM GROUP B + 2.0 CREDITS FROM GROUP C

GROUP A Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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

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MULTIMEDIA AND INTERACTIVE TECHNOLOGIES: MULTIMEDIA WEB

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR
1.0 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

GROUP A Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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

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PRINT TECHNOLOGIES AND DIGITAL GRAPHICS

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR
1 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1 CREDIT FROM GROUP C

GROUP A **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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	1.5
			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

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ACADEMY OF FINANCE

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR
1.0 CREDIT FROM GROUP A + 1.0 CREDIT FROM GROUP B + 2.0 CREDITS FROM GROUP C

GROUP A — Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B — Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C — 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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ACCOUNTING

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR
1.0 CREDIT FROM GROUP A + 2.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

GROUP A **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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

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BUSINESS ADMINISTRATION

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR
1.0 CREDITS FROM GROUP A + 2.0 CREDIT FROM GROUP B + 1.0 CREDITS FROM GROUP C

GROUP A **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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 2017–2018 SCHOOL YEAR
1.0 CREDIT FROM GROUP A + 1.0 CREDITS FROM GROUP B + 2.0 CREDIT FROM GROUP C

GROUP A Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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
						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 # 52.1451.0, OASIS # MK

CARPENTRY

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 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 Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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[1]	1.5	5642	CARPENTRY TP 3B	1.5
5101	CARPENTRY TP 1B	1.5	5681	CONSTR MGT TP 1B[1]	1.5			

* Unlimited repeats

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

[1] Course offered at Montgomery College, Rockville Campus

CONSTRUCTION ELECTRICITY

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 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 — Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B — Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C — 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[1]	1.5			
5110	ELEC/CONST TP 1B	1.5	5681	CONSTR MGT TP 1B[1]	1.5			

Unlimited repeats

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

[1] Course offered at Montgomery College, Rockville Campus

HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 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 **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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[1]			
5129	HVAC TP 1B	1.5	5681	CONSTR MGT TP 1B	1.5[1]			

* Unlimited repeats

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

[1] Course offered at Montgomery College, Rockville Campus

MASONRY

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 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 **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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[1]	1.5			
5568	MASONRY TP 1B	1.5	5681	CONSTR MGT TP 1B[1]	1.5			

* Unlimited repeats

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

[1] Course offered at Montgomery College, Rockville Campus

PLUMBING

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 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 **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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[1]	1.5			
5608	PLUMBING TP 1B	1.5	5681	CONSTR MGT TP 1B[1]	1.5			

Unlimited repeats

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

[1] Course offered at Montgomery College, Rockville Campus

PRINCIPLES OF ARCHITECTURE AND CAD TECHNOLOGY DESIGN

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR

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

GROUP A Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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 TECHNLGY TP	1.5	5107	ADV CAD APPL TP	1.5			
			5680	CONSTR MGT TP 1A[1]	1.5			
			5681	CONSTR MGT TP 1B[1]	1.5			

* Unlimited repeats

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

[1] Course offered at Montgomery College, Rockville Campus

ACADEMY OF HOSPITALITY AND TOURISM, NATIONAL

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR

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

GROUP A Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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 2017–2018 SCHOOL YEAR

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

GROUP A **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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

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

HOSPITALITY MANAGEMENT

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR

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

GROUP A **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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 CULINARY ARTS (ACF)

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR

SINGLE PERIOD COURSES: 2.0 CREDITS FROM GROUP A + 2.O CREDITS FROM GROUP B (INTERNSHIP RECOMMENDED)
DOUBLE PERIOD COURSES: 4.0 CREDITS FROM GROUP A + 1.0 CREDIT FROM GROUP B (INTERNSHIP RECOMMENDED)
TRIPLE PERIOD COURSES: 6.0 CREDITS FROM GROUP A + 1.0 CREDIT FROM GROUP B (INTERNSHIP RECOMMENDED)

GROUP A — Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B — Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C — 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 AND CONSUMER SERVICES HOSPITALITY AND TOURISM	0.5			
4822	RESTAURNT MGT 1B	0.5	5394	RESRCH HOSP A	0.5			
4831	RESTAURNT MGT 2A	0.5	5395	RESRCH HOSP B	0.5			
4832	RESTAURNT MGT 2B	0.5	7341	DUAL CREDIT ADVANCED FOOD MANAGEMENT	0.5			
4823	RESTAURNT MGT 1A DP	1.0	7813	INTERNSHIP A	0.5			
4824	RESTAURNT MGT 1B DP	1.0	7816	INTERNSHIP B	0.5			
4841	RESTAURNT MGT 2A DP	1.0	7818	INTERNSHIP DP A	1.0			
4842	RESTAURNT MGT 2B DP	1.0	7819	INTERNSHIP DP B	1.0			
4834	RESTAURNT MGT 1A TP	1.5	7822	INTERNSHIP TP A	1.5			
4835	RESTAURNT MGT 1B TP	1.5	7823	INTERNSHIP TP B	1.5			
4837	RESTAURNT MGT 2A TP	1.5						
4838	RESTAURNT MGT 2B TP	1.5						

Unlimited repeats

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

CERTIFIED PROFESSIONAL HORTICULTURIST

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR

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

GROUP A **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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

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

ACADEMY OF HEALTH PROFESSIONS AND BIOSCIENCES

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR
2.0 CREDIT FROM GROUP A + 1.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

GROUP A **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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

PROJECT LEAD THE WAY (PTLW): BIOMEDICAL SCIENCES

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR
2.0 CREDIT FROM GROUP A + 1.0 CREDITS FROM GROUP B + 1.0 CREDIT FROM GROUP C

GROUP A **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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 2017–2018 SCHOOL YEAR
1.0 CREDIT FROM GROUP A + 1.0 CREDITS FROM GROUP B + 2.0 CREDIT FROM GROUP C

GROUP A Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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

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 # 26.1201.4, OASIS # BI

EARLY CHILD DEVELOPMENT

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR

SINGLE PERIOD COURSES - 1.0 CREDIT FROM GROUP A + 1.0 CREDIT FROM GROUP B + 1.0 CREDIT FROM GROUP C + 1.0 CREDIT FROM GROUP D
DOUBLE PERIOD COURSES – 2.O CREDITS FROM GROUP A + 2.0 CREDITS FROM GROUP B + 2.0 CREDITS FROM GROUP C + 1.0 CREDIT FROM GROUP D

GROUP A — Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B — Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C — Additional Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP D — 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	4880	ADV CHILD DEV 2A	0.5	4882	ADV CHILD DEV 3A	0.5	2330	AP PSYCH A	0.5
4848	CHILD DEV 1B	0.5	4881	ADV CHILD DEV 2B	0.5	4883	ADV CHILD DEV 3B	0.5	2331	AP PSYCH B	0.5
4851	CHILD DEV DP* 1A	1.0	4853	CHILD DEV DP* 2A	1.0	4868	CHILD DEV DP* 3A	1.0	4884	ADVANCED INTERNSHIP EDUCATION & CHILD STUDIES	0.5
4852	CHILD DEV DP* 1B	1.0	4854	CHILD DEV DP* 2B	1.0	4869	CHILD DEV DP* 3B	1.0	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
*Double Period Child Development courses are not Advanced-level.									7818	INTERNSHIP DP	1.0
									7819	INTERNSHIP DP	1.0
									7822	INTERNSHIP TP	1.5
									7823	INTERNSHIP TP	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

JUSTICE, LAW, AND SOCIETY

REQUIREMENTS FOR PROGRAM COMPLETION

FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR

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

GROUP A Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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 ESSAY A	0.5
5148	INTRO JLS A	0.5	5147	LAW & ADM JUSTICE B	0.5	2012	IB THEORY OF KNOWLEDGE 1 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

ACADEMY OF INFORMATION TECHNOLOGY (NAF): IT NETWORKING

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR

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

GROUP A Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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
2922	FOUND OF COMP SC A	0.5	5613	MICROCOMPUTER TECHNOLOGIES DP A	1.0	4230	ADV NETWK MGT A	0.5
2923	FOUND OF COMP SC B	0.5	5614	MICROCOMPUTER TECHNOLOGIES DP B	1.0	4231	ADV NETWK MGT B	0.5
2924	AP CS PRIN A	0.5	5615	CMPTR LAN MGMT A	0.5	5617	NET ENGRMGMT DP A	1.0
2925	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
2818	IB COMP SC 1 A	0.5				7312	DUAL CREDIT COMPUTER APPLICATIONS	0.5
2819	IB COMP SC 1 B	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 (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.

For office use only: CIP # 11.0151.0, OASIS # AN

ACADEMY OF INFORMATION TECHNOLOGY (NAF): IT PROGRAMMING

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 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 **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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

FOR OFFICE USE ONLY: CIP # 11.0152.0, OASIS # AP.

ACADEMY OF INFORMATION TECHNOLOGY (NAF): WEB DESIGN

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR

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

GROUP A Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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
2818	IB COMP SC 1 A	0.5				7312	DUAL CREDIT COMPUTER APPLICATIONS	0.5
2819	IB COMP SC 1 B	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.

For office use only: CIP # 11.0153.0, OASIS # AR

CISCO NETWORKING ACADEMY

REQUIREMENTS FOR PROGRAM COMPLETION

FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR

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

GROUP A **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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
2819	IB COMP SC 1 A	0.5				7315	DUAL CREDIT ADVANCED COMPUTER SCIENCE	0.5
2819	IB COMP SC 1 B	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.

FOR OFFICE USE ONLY: CIP # 11.0950.0, OASIS # CI

COMPUTER SCIENCE/CODE.ORG

REQUIREMENTS FOR PROGRAM COMPLETION

FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR

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

<u>**OR**</u> (2.0 CREDITS FROM GROUP B + 2.0 CREDITS FROM GROUP C)

GROUP A — Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B — Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C — 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	2965	COMP PRG 3 ADV A	0.5
2923	FOUNDATIONS OF COMPUTER SCIENCE B	0.5	2925	AP COMPUTER SCIENCE PRINCIPLES B	0.5	2966	COMP PRG 3 ADV B	0.5
			2901	AP COMPUTER PROGRAMMING 2 A	0.5	5719	ACD INFTEC INT A	0.5
			2902	AP COMPUTER PROGRAMMING 2 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
						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

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

NETWORK OPERATIONS

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 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 Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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
2922	FOUND OF COMP SC PW A	0.5	4242	NETWORK OP DP 1B	1.0	4203	NETWORK OPERATIONS B TP	1.5
2823	FOUND OF COMP SC PW B	0.5	4243	NETWORK OP DP 1B	1.0	7813	INTERNSHIP A	0.5
2989	COMPUTER PROG 1A	0.5	4244	NETWORK OP DP 2	1.0	7816	INTERNSHIP B	0.5
2924	AP CS PRIN PW A	0.5				7818	INTERNSHIP DP A	1.0
2925	AP CS PRIN PW B	0.5				7819	INTERNSHIP DP B	1.0
2990	COMPUTER PROG 1B	0.5				7822	INTERNSHIP TP A	1.5
2991	WEB SITE DVLP A	0.5				7823	INTERNSHIP TP B	1.5
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

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FOR OFFICE USE ONLY: CIP # 11.0901.4, OASIS # NW

PROJECT LEAD THE WAY (PLTW): ADVANCED ENGINEERING

REQUIREMENTS FOR PROGRAM COMPLETION

FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 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 Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C Capstone courses or work-based learning opportunities (e.g., internship, clinical experience, or a college course).			GROUP D 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

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

AUTOMOTIVE COLLISION REPAIR/DEALERSHIP TRAINING

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 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 **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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

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

AUTOMOTIVE TECHNOLOGY/DEALERSHIP TRAINING

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR

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

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

GROUP A **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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

FOUNDATIONS OF AUTOMOTIVE TECHNOLOGY

REQUIREMENTS FOR PROGRAM COMPLETION

FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 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 Foundation courses that provide core knowledge and skills needed for the Program of Study.			GROUP B Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.			GROUP C 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

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

COLLEGE AND CAREER RESEARCH AND DEVELOPMENT

REQUIREMENTS FOR PROGRAM COMPLETION
FOR STUDENTS ENTERING GRADE 9 DURING THE 2017–2018 SCHOOL YEAR
1.0 CREDITS FROM GROUP A + 1.0 CREDITS FROM GROUP B + 2.0 CREDIT FROM GROUP C

GROUP A **Foundation courses that provide core knowledge and skills needed for the Program of Study.**			GROUP B **Courses that extend academic, technical, and workplace skills to be successful in the Program of Study.**			GROUP C **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

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