

Agenda

- Explanation of ECIHSA
- Overview of the programs
 - Cybersecurity (Certificate & Associate Degree)
 - Multimedia Game Simulation (Certificate & Associate Degree)
 - Mechatronics (Certificate)
 - General Studies (Certificate)
- Registration
 - Timeline
 - Tuition costs & process
- Questions/answers

Explanation of ECIHSA

- A unique partnership with the Community College of Allegheny County (CCAC)
- Provides all WAHS students access to college programs while attending WAHS
- Founded in the belief that all students deserve access to rigorous coursework aligned the with student's career aspirations and interests
- WAHS offers 2 associate degree options and 4 certificate options
- 24 WA courses available for 119 total CCAC credits
- 21 WA teachers certified as CCAC adjunct professors

Early College In High School Academy



Cybersecurity

There has Never Been a Better Time to Earn a Degree in Cybersecurity

Through the Early College in High School Academy, a unique partnership with Community College of Allegheny County, West Allegheny High School is excited to offer a Cybersecurity program. This hallmark opportunity allows our students to complete their first year or two of college by earning a college certificate or associate degree while also attaining a WA high school diploma.

Identified as one of the most in demand and fastest growing careers, Cybersecurity focuses on identifying and analyzing vulnerabilities, threats and risks in the age of digital information. Students enrolled in the ECIHSA Cybersecurity program will learn how to protect sensitive online data and safeguard digital security.

Course Credits

The Cybersecurity program offers the flexibility of earning either a college certificate or an associate degree. The Cybersecurity Certificate program consists of 25 college credits earned in four (4) West Allegheny courses. The Cybersecurity Associate Degree consists of 68 college credits earned in 13 West Allegheny courses.

Career Opportunities

Employment opportunities for Cybersecurity graduates are in high demand and careers are diverse. Many graduates find employment in the banking, retail or government sector, working to network data, install firewalls, create security plans and monitor online activity.

Career Demand

According to 2017/2018 data, annual job openings in the cybersecurity field were 1,560 regionally and 18,993 nationally. The median hourly earnings were \$33.68 regionally and \$36.87 nationally. These numbers are anticipated to grow by 7.4% regionally and 13.1% nationally over the next decade.

Benefits of the Early College in High School Academy Cybersecurity Program

- In four (4) West Allegheny courses, students complete eight (8) CCAC courses earning 25 college credits and complete the Cybersecurity Certificate program, while earning industry credentials/certificates.
- In 13 West Allegheny courses, students complete 21 CCAC courses earning 68 college credits and complete the Cybersecurity Associate Degree program.
- Students have the opportunity to earn either the Cybersecurity Certificate or Associate Degree in three (3) or four (4) years.
- Courses are taught at West Allegheny High School by our teachers certified as CCAC adjunct professors during the regular school day, while students earn credits toward their WA diploma.
- Any student enrolled in the certificate program will receive a 50% or 100% academic scholarship to fund program completion (students must maintain a 2.8 GPA and a minimum of 90% attendance). Families will be responsible to pay up to \$58* per CCAC course.
- Students who elect to take courses as concurrent enrollment only, will be responsible for an associated cost of \$116* per CCAC course as compared to \$464* for a four-credit course as well as a one-time \$25 matriculation fee.
- Students are eligible for all benefits available to CCAC students including access to the library, Math Café, and Writing Labs.

*Costs are subject to change based on CCAC tuition rates.



**Cybersecurity Certificate - 4 Year Progression
4 WA Courses (8 CCAC Courses) – 25 Credits**

Year 1

0630 Intro to Cybersecurity – 6 total CR
CIT 115 – Intro to Info Technology – 3 CR
CIT 175 – Cyberspace Vuln & Risks – 3 CR

Year 2

0631 Principles of Information Security – 6 total CR
CIT 181 – Principles of Info Security – 4 CR
CIT 185 – Network Security – 3 CR

Year 3

0632 Computer Forensics w/Intrusion Detect. & Prevent. – 6 total CR
CIT 180 – Computer Forensics 1 – 3 CR
CIT 186 – Intrusion Detect. & Prev. – 3 CR

Year 4

Advanced Cybersecurity Topics (New For 2020-21) – 6 total CR
CIT 282 – Adv Cybersecurity Topics – 3 CR
CIT 285 – Cybersecurity Capstone – 3 CR

**Cybersecurity Associate - 4 Year Progression
13 WA Courses (21 CCAC Courses) – 68 Credits**

Year 1

0630 Intro to Cybersecurity – 6 total CR
CIT 115 – Intro to Info Technology – 3 CR
CIT 175 – Cyberspace Vuln & Risks – 3 CR
0317 Honors EC Algebra II – 4 total CR
**MUST Pass CCAC Placement Test
Placement of the course will vary based students course progression
MAT 108 – Intermediate Algebra – 4 CR

Year 2

0631 Principles of Information Security – 6 total CR
CIT 181 – Principles of Info Security – 4 CR
CIT 185 – Network Security – 3 CR
0243 Criminal Justice & Investigations – 6 total CR
CJC 101 – Intro to Criminal Justice – 3 CR
CJC 201 – Fundamentals of Criminal Investigation – 3 CR
0232 AP U.S. Government & Politics – 3 total CR
POL 103 – American Government – 3 CR
0617 AP Computer Science Principles – 4 total CR
CIT 111 – Intro Prog: Javascript – 4 CR

Year 3

0632 Computer Forensics w/Intrusion Detect. & Prevent. – 6 total CR
CIT 180 – Computer Forensics 1 – 3 CR
CIT 186 – Intrusion Detect. & Prev. – 3 CR
0122 AP English Language and Composition – 6 total CR
**MUST Pass CCAC Placement Test
ENG 101 – English Comp. 1 – 3 CR
ENG 102 – English Comp. 2 – 3 CR
0412 AP Physics 1 – 4 total CR
**MUST Pass MAT 108 or Placement test
PHY 141 – Physics 1 – 4 CR

Year 4

Advanced Cybersecurity Topics (New for 2020-21) – 6 total CR
CIT 282 – Adv. Cybersecurity Topics – 3 CR
CIT 285 – Cybersecurity Capstone – 3 CR
Intro to Data Analytics with Python (New for 2020-21) – 6 total CR
DAT 102 – Intro to Data Analytics – 3 CR
DAT 119 – Python 1 – 3 CR
0151 Oral Communications & Interpretation – 3 total CR
**MUST Pass ENG 101
SPH 101 – Oral Communications – 3 CR
Programming In C and C++ (New for 2020-2021) – 7 total CR
CIT 145 – Programming In C – 3 CR
CIT 245 – Data Struct. & Prog. In C++ - 4 CR

**Cybersecurity Certificate - 3 Year Progression
4 WA Courses (8 CCAC Courses) – 25 Credits**

Year 1

0630 Intro to Cybersecurity – 6 total CR
CIT 115 – Intro to Info Technology – 3 CR
CIT 175 – Cyberspace Vuln & Risks – 3 CR

Year 2

0631 Principles of Information Security – 6 total CR
CIT 181 – Principles of Info Security – 4 CR
CIT 185 – Network Security – 3 CR
0632 Computer Forensics w/Intrusion Detect. & Prevent. – 6 total CR
CIT 180 – Computer Forensics 1 – 3 CR
CIT 186 – Intrusion Detect. & Prev. – 3 CR

Year 3

Advanced Cybersecurity Topics (New For 2020-21)
CIT 282 – Adv Cybersecurity Topics – 3 CR
CIT 285 – Cybersecurity Capstone – 3 CR

**Cybersecurity Associate - 3 Year Progression
13 WA Courses (21 CCAC Courses) – 68 Credits**

Year 1

0630 Intro to Cybersecurity – 6 total CR
CIT 115 – Intro to Info Technology – 3 CR
CIT 175 – Cyberspace Vuln & Risks – 3 CR
0317 Honors EC Algebra II – 4 total CR
**MUST Pass CCAC Placement Test
Placement of the course will vary based students course progression
MAT 108 – Intermediate Algebra – 4 CR

Year 2

0232 AP U.S. Government & Politics – 3 total CR
POL 103 – American Government – 3 CR
0617 AP Computer Science Principles – 4 total CR
CIT 111 – Intro Prog: Javascript – 4 CR

Year 2

0631 Principles of Information Security – 6 total CR
CIT 181 – Principles of Info Security – 4 CR
CIT 185 – Network Security – 3 CR
0632 Computer Forensics w/Intrusion Detect. & Prevent. – 6 total CR
CIT 180 – Computer Forensics 1 – 3 CR
CIT 186 – Intrusion Detect. & Prev. – 3 CR
0243 Criminal Justice & Investigations – 6 total CR
CJC 101 – Intro to Criminal Justice – 3 CR
CJC 201 – Fundamentals of Criminal Investigation – 3 CR
0122 AP English Language and Composition – 6 total CR
**MUST Pass CCAC Placement Test
ENG 101 – English Comp. 1 – 3 CR
ENG 102 – English Comp. 2 – 3 CR
0412 AP Physics 1 – 4 total CR
**MUST Pass MAT 108 or Placement test
PHY 141 – Physics 1 – 4 CR

Year 3

Advanced Cybersecurity Topics (New for 2020-21) – 6 total CR
CIT 282 – Adv. Cybersecurity Topics – 3 CR
CIT 285 – Cybersecurity Capstone – 3 CR
Intro to Data Analytics with Python (New for 2020-21) – 6 total CR
DAT 102 – Intro to Data Analytics – 3 CR
DAT 119 – Python 1 – 3 CR
0151 Oral Communications & Interpretation – 3 total CR
**MUST Pass ENG 101
SPH 101 – Oral Communications – 3 CR
Programming In C and C++ (New for 2020-2021) – 7 total CR
CIT 145 – Programming In C – 3 CR
CIT 245 – Data Struct. & Prog. In C++ - 4 CR

Order of course may vary by student. Please visit your school counselor to learn more about enrollment options.

Early College In High School Academy



Multimedia Game Simulation

Creativity Meets Technology in Multimedia Game Simulation

Through the Early College in High School Academy, a unique partnership with Community College of Allegheny County, West Allegheny High School is excited to offer a Multimedia Game Simulation program. This dynamic opportunity allows our students to complete their first year or two of college by earning a college certificate in multimedia game simulation or associate degree in multimedia programming, simulation, and gaming while also attaining a WA high school diploma.

The Multimedia Game Simulation program provides opportunities to learn about the game design and simulation practices. Additionally, students are exposed to industry standard hardware, software and development pipelines, beginning with frameworks and project practices, then moving into design and implementation.

Course Credits

The Multimedia Game Simulation program offers the flexibility of earning either a certificate in multimedia game simulation or associate degree in multimedia programming, simulation, and gaming. The certificate program consists of **27** college credits earned in **six (6)** West Allegheny courses. The associate degree consists of **62** college credits earned in **13** West Allegheny courses.

Career Opportunities

As with most technology-based careers, multimedia gaming opportunities continue to evolve. Multimedia gaming careers traditionally involve creating two- and three-dimensional models, animation, and visual effects for video games and other forms of media.

Career Demand

According to 2017/2018 data, annual job openings in the multimedia game simulation field were 1,144 regionally and 13,376 nationally. The median hourly earnings were \$32.27 regionally and \$33.83 nationally. These numbers are anticipated to grow by 8% regionally and 13.3% nationally over the next decade.

Benefits of the Early College In High School Academy Multimedia Game Simulation Program

- In six (6) West Allegheny courses, students complete nine (9) CCAC courses earning 27 college credits and complete the Multimedia Game Simulation Certificate program. In 13 West Allegheny courses, students complete 19 CCAC courses earning 62 college credits and complete the Multimedia Programming, Simulation, and Gaming Associate Degree.
- Students have the opportunity to earn either the Multimedia Game Simulation certificate or the Multimedia Programming, Simulation, and Gaming associate degree in three (3) or four (4) years.
- Courses are taught at West Allegheny High School by our teachers certified as CCAC adjunct professors during the regular school day, while students earn credits toward their WA diploma.
- Any student enrolled in the certificate program will receive a 50% or 100% academic scholarship to fund program completion (students must maintain a 2.8 GPA and a minimum of 90% attendance). Families will be responsible to pay up to \$58* per CCAC course.
- Students who elect to take courses as concurrent enrollment only, will be responsible for an associated cost of \$116* per CCAC course as compared to \$464* for a four-credit course as well as a one-time \$25 matriculation fee.
- Students are eligible for all benefits available to CCAC students including access to the library, Math Café, and Writing Labs.

*Costs are subject to change based on CCAC tuition costs.



MGS Certificate - 4 Year Progression
6 WA Courses (9 CCAC Courses) – 27 Credits

Year 1

0620 Intro to Game Design & Web Development – 6 total CR
MMC 160 – Game Design and Sim. 1 – 3 CR
CIT 125 – Web Development – 3 CR

Year 2

0621 Gamemaker Programming - WA Only
0622 Developing Multimedia Websites – 9 total CR
MMC 111 – Dev. Images for Web – 3 CR
MMC 112 – Audio and Video Web – 3 CR
MMC 150 – Program with Javascript – 3 CR

Year 3

0625 3D Game Development – 3 total CR
MMC 250 – 3D Design for Gaming – 3 CR
0623 3D Modeling – 6 total CR
MMC 260 – Maya for Gaming 1 – 3 CR
MMC 270 – Maya for Gaming 2 – 3 CR

Year 4

0624 Game Production & Marketing – 3 total CR
MMC 228 – Instruct Design – 3 CR

MGS Certificate - 3 Year Progression
6 WA Courses (9 CCAC Courses) – 27 Credits

Year 1

0620 Intro to Game Design & Web Development – 6 total CR
MMC 160 – Game Design and Sim. 1 – 3 CR
CIT 125 – Web Development – 3 CR

0623 3D Modeling – 6 total CR

MMC 260 – Maya for Gaming 1 – 3 CR
MMC 270 – Maya for Gaming 2 – 3 CR

Year 2

0621 Gamemaker Programming - WA Only
0622 Developing Multimedia Websites
MMC 111 – Dev. Images for Web – 3 CR
MMC 112 – Audio and Video for Web – 3 CR
MMC 150 – Program with Javascript – 3 CR

Year 3

0625 3D Game Development – 3 total CR
MMC 250 – 3D Design for Gaming – 3 CR
0624 Game Production & Marketing – 3 total CR
MMC 228 – Instruct Design – 3 CR

MGS Associate - 4 Year Progression
13 WA Courses (19 CCAC Courses) – 62 Credits

Year 1

0620 Intro to Game Design & Web Development – 6 total CR
MMC 160 – Game Design and Sim. 1 – 3 CR
CIT 125 – Web Development – 3 CR
0317 Honors EC Algebra II – 4 total CR
**MUST Pass CCAC Placement Test
Placement of the course will vary based students course progression
MAT 108 – Intermediate Algebra – 4CR

Year 2

0617 AP Computer Science Principles – 4 total CR
CIT 111 – Intro Prog: Javascript – 4 CR
0622 Developing Multimedia Websites
MMC 111 – Dev. Images for Web – 3 CR
MMC 112 – Audi & Video for Web – 3 CR
MMC 150 – Program w/Javascript – 3 CR

Year 3

0625 3D Game Development – 3 total CR
MMC 250 – 3D Design for Gaming – 3 CR
0623 3D Modeling – 6 total CR
MMC 260 – Maya for Gaming 1 – 3 CR
MMC 270 – Maya for Gaming 2 – 3 CR
0618 AP Computer Science A – 4 total CR
CIT 130 – Obj. Orien. Prog. 1: Java – 4 CR
0122 AP English Language and Composition – 6 total CR
**MUST Pass CCAC Placement Test
ENG 101 – English Comp. 1 – 3 CR
ENG 102 – English Comp. 2 – 3 CR
0412 AP Physics 1 – 4 total CR
**MUST Pass MAT 108 or Placement test
PHY 141 – Physics 1 – 4 CR

Year 4

Programming in C & C++ (New for 2020-21) – 7 total CR
CIT 145 – Program In C – 3 CR
CIT 245 – Data Str. & Prog. In C++ – 4 CR
Virtual Reality (New for 2020-2021) – 3 total CR
MMC 170 – Game Design & Simulation 2 – 3 CR
0240 AP Psychology – 3 total CR
PSY 101 – Intro to Psychology – 3 CR
0624 Game Production & Marketing – 3 total CR
MMC 228 – Instruct Design – 3 CR

MGS Associate - 3 Year Progression
13 WA Courses (19 CCAC Courses) – 62 Credits

Year 1

0620 Intro to Game Design & Web Development – 6 total CR
MMC 160 – Game Design and Sim. 1 – 3 CR
CIT 125 – Web Development – 3 CR
0317 Honors EC Algebra II – 4 total CR
**MUST Pass CCAC Placement Test
Placement of the course will vary based students course progression
MAT 108 – Intermediate Algebra – 4CR
0617 AP Computer Science Principles – 4 total CR
CIT 111 – Intro Prog: Javascript – 4 CR

Year 2

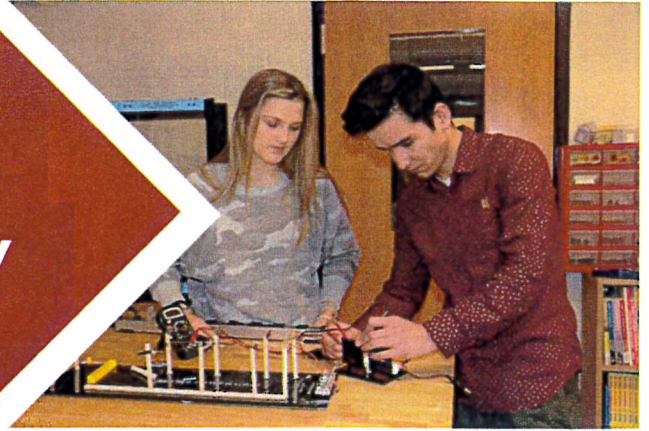
0622 Developing Multimedia Websites
MMC 111 – Dev. Images for Web – 3 CR
MMC 112 – Audio & Video for Web – 3 CR
MMC 150 – Program w/Javascript – 3 CR
0623 3D Modeling – 6 total CR
MMC 260 – Maya for Gaming 1 – 3 CR
MMC 270 – Maya for Gaming 2 – 3 CR
0625 3D Game Development – 3 total CR
MMC 250 – 3D Design for Gaming – 3 CR
0618 AP Computer Science A – 4 total CR
CIT 130 – Obj. Orien. Prog. 1: Java – 4 CR
0122 AP English Language and Composition – 6 total CR
**MUST Pass CCAC Placement Test
ENG 101 – English Comp. 1 – 3 CR
ENG 102 – English Comp. 2 – 3 CR
0412 AP Physics 1 – 4 total CR
**MUST Pass MAT 108 or Placement test
PHY 141 – Physics 1 – 4 CR

Year 3

Programming in C & C++ (New for 2020-21) – 7 total CR
CIT 145 – Program In C – 3 CR
CIT 245 – Data Str. & Prog. In C++ – 4 CR
Virtual Reality (New for 2020-2021) – 3 total CR
MMC 170 – Game Design & Simulation 2 – 3 CR
0240 AP Psychology – 3 total CR
PSY 101 – Intro to Psychology – 3 CR
0624 Game Production & Marketing – 3 total CR
MMC 228 – Instruct Design – 3 CR

Order of course may vary by student. Please visit your school counselor to learn more about enrollment options.

Early College In High School Academy



Mechatronics Technology

Prepare for Tomorrow's Manufacturing Careers Today

Through the Early College in High School Academy, a unique partnership with Community College of Allegheny County, West Allegheny High School is excited to offer a Mechatronics Technology Program. This distinct opportunity allows our students to complete their first year or two of college by earning a college certificate while also attaining a WA high school diploma.

For students interested in advanced manufacturing, mechatronics is a growing field that requires the technical skills necessary to work with industrial robots, programmable logic controllers and other automated equipment.

College Credits Available

The Mechatronics Technology college certificate program consists of **30** college credits earned through **five (5)** West Allegheny courses.

Career Opportunities

Graduates of the Mechatronics Technology Program will be prepared to pursue careers in advanced manufacturing, systems integration, electromechanics, process control and industrial maintenance, as well as serve as technicians in supply chain, electronics, instrumentation, robotics and automation.

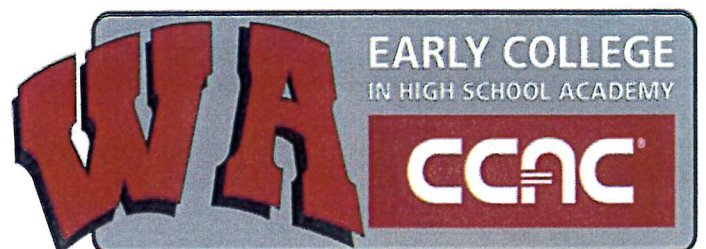
Career Demand

According to 2017/2018 data, annual job openings in the mechatronics field were 1,258 regionally and 15,078 nationally, a 7.4% and 12.3% increase respectively. The median hourly earnings were \$35.21 regionally and \$37.68 nationally. These numbers are anticipated to grow over the next decade.

Benefits of the Early College In High School Academy Mechatronics Technology Program

- In five (5) West Allegheny courses, students complete 10 CCAC courses earning 30 college credits and complete the Mechatronics Certificate program, while earning up to four industry credentials/certifications.
- Students have the opportunity to earn a Mechatronics Technology Certificate in two (2), three (3) or four (4) years.
- Courses are taught at West Allegheny High School by our teachers certified as CCAC adjunct professors during the regular school day, while students earn credits toward their WA diploma.
- Any student enrolled in the certificate program will receive a 50% or 100% academic scholarship to fund certificate completion (students must maintain a 2.8 GPA and a minimum of 90% attendance). Families will be responsible to pay up to \$58* per CCAC course.
- Students who elect to take courses as concurrent enrollment only, will be responsible for an associated cost of \$116* per CCAC course as compared to \$348* for a three-credit course as well as a one-time \$25 matriculation fee.
- Students are eligible for all benefits available to CCAC students including access to the library, Math Café, and Writing Labs.

*Costs are subject to change based on CCAC tuition costs.



**MECHATRONICS TECHNOLOGY CERTIFICATE
4 YEAR PROGRESSION – 5 WA COURSES (10 CCAC COURSES) – 30 CCAC CREDITS**

YEAR 1		INDUSTRY CREDENTIALS
0711 Manufacturing 1	MEC 100 – Safety and Quality – 3 CR MEC 102 – Industrial Processes – 3 CR	Certified Production Technician (CPT) Credential
0707 Home Systems (New for 2019-20)	MEC 103 – Fundamentals of Electricity – 3 CR MEC 104 – Mechanical Systems MEC – 3 CR	PMMI Mechatronics: Mechanical Components 1
12 CCAC CREDITS		
YEAR 2		CREDENTIALS POSSIBLE
Fluid Robotics (New for 2020-21)	MEC 112 – Introduction to Robotics – 3 CR MEC 150 – Fluid Power – 3 CR	
6 CCAC CREDITS		
YEAR 3		CREDENTIALS POSSIBLE
0716 Digital Electronics	MEC 106 – Industrial Power Systems – 3 CR MEC 110 – Digital Electronics – 3 CR	
6 CCAC CREDITS		
YEAR 4		CREDENTIALS POSSIBLE
Programming Logic Controllers (New for 2020-21)	MEC 108 – Programming Logic Controllers 1–3 CR MEC 156 – Motors and Motor Control –3 CR	PMMI Mechatronics: Program. Logic Controllers 1 PMMI Mechatronics: Industrial Electricity 1
6 CCAC CREDITS		

**MECHATRONICS TECHNOLOGY CERTIFICATE
3 YEAR PROGRESSION – 5 WA COURSES (10 CCAC COURSES) – 30 CCAC CREDITS**

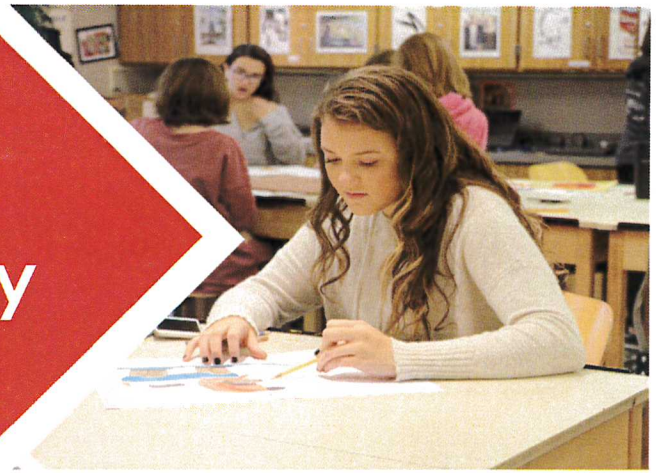
YEAR 1		CREDENTIALS POSSIBLE
0711 Manufacturing 1	MEC 100 – Safety and Quality – 3 CR MEC 102 – Industrial Processes – 3 CR	Certified Production Technician (CPT) Credential
0707 Home Systems (New for 2019-20)	MEC 103 – Fundamentals of Electricity – 3 CR MEC 104 – Mechanical Systems MEC – 3 CR	PMMI Mechatronics: Mechanical Components 1
12 CCAC CREDITS		
YEAR 2		CREDENTIALS POSSIBLE
Fluid Robotics (New for 2020-21)	MEC 112 – Introduction to Robotics – 3 CR MEC 150 – Fluid Power – 3 CR	
0716 Digital Electronics	MEC 106 – Industrial Power System s– 3 CR MEC 110 – Digital Electronics – 3 CR	
12 CCAC CREDITS		
YEAR 3		CREDENTIALS POSSIBLE
Programming Logic Controllers (New for 2020-21)	MEC 108 – Programming Logic Controllers 1 –3CR MEC 156 – Motors and Motor Control – 3 CR	PMMI Mechatronics: Program. Logic Controllers 1 PMMI Mechatronics: Industrial Electricity 1
6 CCAC CREDITS		

**MECHATRONICS TECHNOLOGY CERTIFICATE
2 YEAR PROGRESSION – 5 WA COURSES (10 CCAC COURSES) – 30 CCAC CREDITS**

YEAR 1		CREDENTIALS POSSIBLE
0711 Manufacturing 1	MEC 100 – Safety & Quality – 3 CR MEC 102– Industrial Processes – 3 CR	Certified Production Technician (CPT) Credential
0707 Home Systems (New for 2019-20)	MEC 103 – Fundamentals of Electricity MEC 104 – Mechanical Systems MEC	PMMI Mechatronics: Mechanical Components 1
0716 Digital Electronics	MEC 106 – Industrial Power Systems – 3 CR MEC 110 – Digital Electronics – 3 CR	
18 CCAC CREDITS		
YEAR 2		CREDENTIALS POSSIBLE
Fluid Power (New for 2020-21)	MEC 112 – Introduction to Robotics – 3 CR MEC 150 – Fluid Power – 3 CR	
Programming Logic Controllers (New for 2020-21)	MEC 108 – Programming Logic Controllers 1 –3 CR MEC 156 – Motors and Motor Control – 3 CR	PMMI Mechatronics: Program. Logic Controllers 1 PMMI Mechatronics: Industrial Electricity 1
12 CCAC CREDITS		

Order of course may vary by student. Please visit your school counselor to learn more about enrollment options.

Early College In High School Academy



General Studies Certificate or Concurrent Enrollment Building a Foundation for Academic Success

Through the Early College in High School Academy, a unique partnership with Community College of Allegheny County, West Allegheny High School is excited to offer a General Studies program. This distinct opportunity allows our students to complete their first year or two of college by earning a college certificate while also attaining a WA high school diploma.

The General Studies program provides the foundations of a baccalaureate liberal arts degree.

Upon successful completion of this program, students will be prepared to:

- Write critically
- Speak effectively in a professional environment
- Demonstrate college level mathematical skills
- Distinguish among the experiences of diverse cultures
- Demonstrate computer literacy

Course Credits

The General Studies program offers a college certificate consisting of **35-36** CCAC credits earned in as few as **eight (8)** West Allegheny courses. West Allegheny offers **49** CCAC courses with **153** college concurrent enrollment credits in **30** WA eligible courses.

Transfer Opportunities

Students should select specialized courses within their major field of concentration as identified by their transfer college or university.

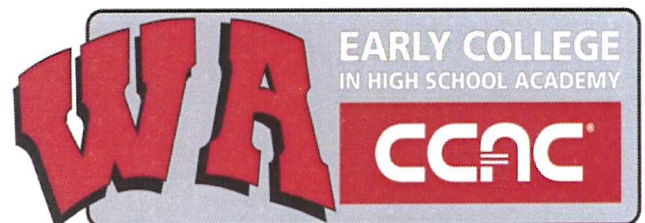
How to Enroll

Please visit your school counselor to learn more about enrollment options

Benefits of the Early College In High School Academy General Studies Program

- In as few as eight (8) West Allegheny courses, students earn 35-36 CCAC credits through the General Studies Certificate program.
- Students have the opportunity to take 49 CCAC courses eligible for 153 college credits as part of concurrent enrollment in 30 WA courses.
- Students have the opportunity to earn the General Studies Certificate in three (3) or four (4) years.
- Courses are taught at West Allegheny High School by our teachers certified as CCAC adjunct professors during the regular school day while students earn credits toward their WA diploma.
- Any student enrolled in the certificate program may receive an academic scholarship to fund program completion (students must maintain a 2.8 GPA and a minimum of 90% attendance). Families will be responsible to pay up to \$58* per CCAC course.
- Students who elect to take courses as concurrent enrollment only, will be responsible for an associated cost of \$116* per CCAC course as compared to \$464* for a four-credit course as well as a one-time \$25 matriculation fee.
- Students are eligible for all benefits available to CCAC students including access to the library, Math Café, and Writing Labs.

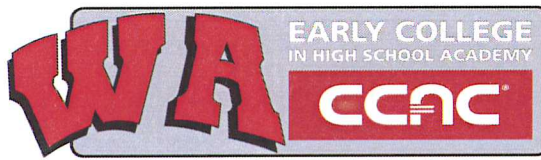
*Costs are subject to change based on CCAC tuition costs.



GENERAL STUDIES CERTIFICATE
8 WA Courses – 35-36 CCAC Credits

REQUIRED CORE COURSES (5 COURSES – 20 CCAC CREDITS)	
0317 Honors EC Algebra II **MUST Pass CCAC Placement Test	MAT 108 – Intermediate Algebra – 4 CR
0232 AP U.S. Government & Politics or 0240 AP Psychology	POL 103 – American Government – 3 CR or PSY 101 – Intro to Psychology – 3 CR
0122 AP English Language & Composition **MUST Pass CCAC Placement Test	ENG 101 – English Comp 1 – 3 CR ENG 102 – English Comp 2 – 3 CR
0412 AP Physics 1 - **MUST Pass MAT 108 or CCAC Placement Test	PHY 141 – Physics 1 – 4 CR
0151 Oral Communications & Interpretation (New for 2019-20) **MUST Pass ENG 101	SPH 101 – Oral Communications – 3 CR
CIT ELECTIVE OPTIONS (CHOOSE 1 COURSE – 3-4 CCAC CREDITS REQUIRED)	
0620 Intro to Game Design & Web Development	MMC 160 – Game Design & Sim 1 – 3CR CIT 125 – Web Development – 3 CR
0630 Introduction to Cybersecurity	CIT 115 – Intro to Info Technology – 3 CR CIT 175 – Cyberspace Vuln & Risks – 3 CR
0617 AP Computer Science Principles	CIT 111 – Intro Prog: Java – 4 CR
0631 Principles of Information Security (New for 2019-20)	CIT 181 – Principles of Info Security – 4 CR CIT 185 – Network Security – 3 CR
0632 Computer Forensics with Intrusion Detection & Prevention (New for 2019-20)	CIT 180 – Computer Forensics 1 – 3 CR CIT 186 – Intrusion Detection & Prev – 3 CR
0618 AP Computer Science A	CIT 130 – Obj Orien Prog 1: Java – 4 CR
Programming In C & C++ (New for 2020-21)	CIT 145 – Program in C – 3 CR CIT 245 – Data Str & Prog In C++ – 4 CR
Advanced Cybersecurity Topics (New for 2020-21)	CIT 282 – Adv Cybersecurity Topics – 3 CR CIT 285 – Cybersecurity Capstone – 3 CR
HUMANITIES ELECTIVE OPTIONS (1 COURSE – 3 CCAC CREDITS)	
0132 AP English Literature & Composition	ENG 115 – General Literature – 3 CR
0743 Honors EC Art IV	ART 109 – Drawing 1 – 3 CR
CULTURAL COMPETENCY ELECTIVE OPTIONS (CHOOSE 1 COURSE – 3 CCAC CREDITS REQUIRED)	
0523 Honors EC German IV	GER 101 – Elementary German 1 – 3 CR GER 102 – Elementary German 2 – 3 CR
0503 Honors EC Spanish IV	SPA 101 – Elementary Spanish 1 – 3 CR SPA 102 – Elementary Spanish 2 – 3 CR
GENERAL ELECTIVE OPTIONS (CHOOSE 1-2 COURSES – 6 CCAC CREDITS)	
Students that elect to take a CIT elective course worth more than 4 credits may meet the general elective credit requirement without taking an additional course. See your counselor or the Academic Principal.	
0711 Manufacturing 1 **Industry credential possible – Certified Production Technician (CPT)	MEC 100 – Safety & Quality – 3 CR MEC 102– Industrial Processes – 3 CR
0707 Home Systems (New for 2019-20) **Industry credential possible – PMMI Mechatronics: Mechanical Components 1	MEC 103 – Fundamentals of Electricity – 3 CR MEC 104 – Mechanical Systems MEC – 3 CR
Intro to Data Analytics with Python (New for 2020-21)	DAT 102 – Intro to Data Analytics – 3 CR DAT 119 – Python 1 – 3 CR
0622 Developing Multimedia Websites	MMC 111 – Dev Images for Web – 3 CR MMC 112 – Audio & Video Web – 3 CR MMC 150 – Programming with Javascript – 3 CR
Fluid Robotics (New for 2020-21)	MEC 112 – Introduction to Robotics – 3 CR MEC 150 – Fluid Power – 3 CR
0716 Digital Electronics	MEC 106 – Industrial Power Systems – 3 CR MEC 110 – Digital Electronics – 3 CR
Programming Logic Controllers (New for 2020-21)	MEC 108 – Programming Logic Controllers 1 – 3 CR MEC 156 – Motors and Motor Control – 3 CR
0243 Criminal Justice & Investigations (New for 2019-20)	CJC 101 – Intro to Criminal Justice – 3 CR CJC 201 – Fund of Criminal Invest – 3 CR
0623 3D Modeling	MMC 260 – MAYA for Gaming 1 – 3 CR MMC 270 – MAYA for Gaming 2 – 3 CR
0625 3D Game Development	MMC 250 – 3D Design for Gaming – 3CR
0624 Game Production & Marketing	MMC 228 – Instructional Design – 3 CR
Virtual Reality (New for 2020-21)	MMC 170 – Game Design & Simulations 2 – 3 CR

Order of courses may vary by student. Please visit your school counselor to learn more about enrollment options.



2019-2020 ECIHSA Registration

WA Course #	WA Course Name	Teacher(s)	CCAC #	Pos Crs	Tot Crs/ Course	Prerequisites	Enroll Date	Registration Date	Start Dates	Final Grades Due	Days	Total Time	Meeting Time
0622	Developing Multimedia Websites	Lisa Monzo	MMC 111	3	9	Intro Game Design	8/30/19	9/6/19	9/9/19	5/29/20	171	7182	1:03 - 1:47
			MMC 112	3									
			MMC 150	3									
0620	Introduction to Game Design & Web	Chris Lucas	MMC 160	3	6	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	11:27 - 12:11
			CIT 125	3									
0623	3D Modeling	Chris Lucas	MMC 260	3	6	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	10:41 - 11:23
			MMC 270	3									
0624	Game Production & Marketing	Chris Lucas	MMC 228	3	3	Intro Game Design	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	7:35 - 8:19
0625	3D Game Development	Chris Lucas	MMC 250	3	3	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	8:23 - 9:05
0630	Introduction to Cybersecurity	Dan Marshall	CIT 115	3	6	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	9:55 - 10:37
			CIT 175	3									
0631	Principles of Information Security	Dan Marshall	CIT 181	4	7	Successful completion of Intro to Cybersecurity	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	7:35 - 8:19
			CIT 185	3									
0632	Computer Forensics with Intrusion	Dan Marshall	CIT 180	3	6	Successful completion of Intro to Cybersecurity	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	9:09 - 9:51
			CIT 186	3									
0617	AP Computer Science Principles	Chris Lucas Doug Murdoch	CIT 111	4	4	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	9:09 - 9:51
0618	AP Computer Science A	Doug Murdoch	CIT 130	4	4	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	7:35 - 8:19
0412	AP Physics I	Blaise Cackovic	PHY 141	4	4	Successfully completion of MAT 108 or Placement test (min score 255-Adv. Algebra)	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	7:35 - 8:19
0240	AP Psychology	Matt Kropf	PSY 101	3	3	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	9:55 - 10:37
0317	Honors Early College Algebra II	Samantha Petrick Matt McBurney	MAT 108	4	4	Placement Test (min score of 10- Elem. Algebra)	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	7:35 - 8:19
0122	AP English Language & Composition	Jennifer Jones Dr. Stephanie White	ENG 101	3	6	Placement Test (min score 261-Writing & 263-Reading)	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	7:35 - 8:19
			ENG 102	3									
0232	AP US Government & Politics	Dan Prevade	POL 103	3	3	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	8:23 - 9:05
0243	Criminal Justice & Investigations	Kateri Meinert	CJC 101	3	6	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	9:09 - 9:51
			CJC 201	3									
0132	AP English Literature & Composition	Jennifer Rieger Jessica Denk	ENG 115	3	3	Successful completion of ENG 101	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	7:35 - 8:19
0151	Oral Communications	Dr. Mike Shaffer	SPH 101	3	3	Successful completion or concurrent enrollment-ENG 101	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	1:03 - 1:47
0503	Honors Early College Spanish IV	Colleen Cunningham	SPA 101	3	6	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	12:15 - 12:59
			SPA 102	3									
0523	Honors Early College German IV	Katie Zanella	GER 101	3	6	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	1:51 - 2:35
			GER 102	3									
0743	Honors Early College Art IV	Leah Shuck	ART 109	3	3	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	8:23 - 9:05
0707	Home Systems	Shawn Dugan	MEC 103	3	6	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	7:35 - 8:19
			MEC 104	3									
0711	Manufacturing 1	Ron Neurohr	MEC 100	3	6	No	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	9:55 - 10:37
			MEC 102	3									
0716	Digital Electronics	Martin Lestander	MEC 106	3	6	Successful completion of Home Systems or teacher approval	8/30/19	10/7/19 - 10/9/19	10/18/19	5/29/20	143	6006	9:55 - 10:37
			MEC 110	3									

*2019-2020 CCAC Tuition costs have changed to \$116 per course with a \$25 one-time matriculation fee
 * All tuition is due by the 5th of the month after registration (i.e. October 5th & November 5th)

Registration Process

Application

- We suggest this be completed at home (students need social security number) but if not done by August 30, it will occur in class

Placement tests

- Any student in courses requiring placement tests must pass before registration
- Dates for exams at WAHS to be emailed once school starts

Registration

- During school October 7 - 9
- Students will be called down to register
- Monies due to the district must be submitted at that time (payable to WASD)
- Monies owed to CCAC may be submitted or paid online (payable to CCAC)

Tuition

- \$116 per CCAC course + \$25 one-time matriculation fee
- 100% scholarship (for certificate courses):
 - Students enrolled in certificate options that receive lunch assistance (free or reduced) or receive special education services
- 50% scholarship:
 - All other students enrolled in certificate options (for certificate courses only)
- All monies for students receiving scholarships are due (made payable to WASD) at time of registration
- Monies for non-scholarship/concurrent enrollment students are due to CCAC by the 15th of the month following registration (Oct. 15 or Nov. 15)



CCAC Placement Testing

- ACCUPLACER® is an integrated system of computer-adaptive assessments designed to evaluate students' skills in reading, writing, and mathematics. These tests will help you and determine which courses are most appropriate for you. Although you cannot fail, you should try to do your best. The results of the tests will determine where you will begin your studies at CCAC. In some cases, you may be exempted from some or all parts of the placement test. Because CCAC is an open-admissions institution, college entrance examinations (such as the SAT) are not required for admission
- Once you have applied and have been accepted to CCAC, you can schedule a placement test at discover.ccac.edu under *Events*. First-time students are also required to complete a Student Orientation prior to registration for classes.

Schedule a Placement Test Today!

- The Accuplacer placement test is offered locally at most CCAC locations. You can schedule your test online by going to ccac.edu and selecting "Request Information" at the top of the page. You will then schedule your test under "Events". Remember: You must "Create an Account" and "Apply" first before scheduling a test.
- ADA On Site Placement Testing: Accommodations are available for students with documented disabilities. For details, Contact Supportive Services
- ESL Placement Testing: Placement Testing is available for those students whose first language is not English. Please call the International Students Office at 412.237.2629 for more information.
- Remote Placement Testing: Remote placement testing is available to applicants outside CCAC's geographic region. To learn how to sign up for a Remote ACCUPLACER Placement Test, please see the Remote Placement Testing page.

Placement Test Exemptions

You may not need to take all or part of the placement tests if any of the following circumstances apply to you:

- You already have a college degree.
- You have already taken college-level English and/or mathematics with a grade of "C" or better.
- You plan to register for a class or classes that have no specified skill requirements.
- Students with SAT or ACT test scores above the 50th percentile will be exempt from mathematics and reading placement testing, but still must take the English writing test (there is no SAT/ACT exemption for English). Verbal and mathematics scores are reported separately.

- A student may re-test for placement out of a course in which he/she was enrolled after four years.
- Once a student has re-tested after four years and scores into the same course(s) for which he/she was enrolled, there is no further alternative, regardless of the results.
- Students with documented disabilities are eligible for modified testing. Speak to the placement test scheduler if you have any questions. You will need to document these circumstances at the Admissions Office when you apply for admission to the College.

Placement Testing Tips

- **You may retake each test once.**
- Tests subjects are English vocabulary and usage, mathematics and reading comprehension.
- Placement tests are offered at regular times throughout the year, with extra testing sessions scheduled prior to each registration.
- Early testing means early registration: the sooner you test, the better your chances of getting into the courses you want to take.
- The length of time required to take the placement tests varies, depending on how many of the tests you need to take. The complete set of tests requires about 1-1/2 to 2 hours. All materials you will need to take the tests will be provided when you come to the test session.
- Test results will be interpreted for you when you meet with your academic advisor.
- Along with your educational record, test results will determine your initial placement in English, Mathematics and reading skills classes.
- Test descriptions, sample test questions, free interactive study app, Writeplacer ESL Guide and more are available at <https://accuplacer.collegeboard.org/>

CollegeBoard Accuplacer: Sample Questions

- For sample questions, you can visit <https://accuplacer.collegeboard.org/students/prepare-for-accuplacer>. Click "Download PDF" under "Free Resources" and see which category you would like to practice.
- If taking a mathematics test, we recommend that you also practice at the following websites: **Cool Math** (<http://www.coolmath.com/>), **Purple Math** (<http://www.purplemath.com/>), **Khan Academy** (<https://www.khanacademy.org/>).

NEXT GENERATION ACCUPLACER SCORES / CCAC COURSE PLACEMENT

For tests taken 1/28/2019 and later

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NOTE: Any first-time, full-time, associate-degree-seeking student who places into all three developmental areas (including EAL), regardless of the level, must take SDS 102, Academic & Personal Development in the first semester.

In the case of a retest, the highest score is to be used for placement.

EXEMPTIONS FROM ACCUPLACER MATH TESTING

SAT Scores	ACT Scores
Old Math (Test dates thru February 2016) 'SAT-M' in Colleague: 520+ or New Math (Test dates starting March 2016) 'SAT-Math' in Colleague): 550+ Eligible for Math 108 or equivalent. Students seeking higher level math must take the math placement test	Math ('ACT-M' in Colleague): 21+ Eligible for Math 108 or equivalent. Students seeking higher level math must take math placement test

IMPORTANT NOTES:

- If the student has NOT taken a math class in the last THREE YEARS, the student MUST start with the Arithmetic Test.
- If the student has taken a math class in the last three years and if that course was at the level of Algebra or higher, the student starts with the Algebra test. If the course taken in the last three years was below the level of Algebra, the student starts with the Arithmetic test.
- No student is to start with the Advanced Algebra Test

NEXT-GEN ACCUPLACER MATH SCORES

Next-Gen Arithmetic Score	CCAC Course Placement
200 – 263	MAT 080 Arithmetic Fundamentals
264 – 300	MAT 090 Algebra Fundamentals <u>OR</u> MAT 191 Math for the Industries <u>OR</u> MAT 193 Pharmaceutical Mathematics <u>OR</u> MAT 195 Business Math Please note that MAT 195 is not intended to be transferable. MAT 193 is intended for students in Allied Health programs.
CCAC Elementary Algebra Score	CCAC Course Placement
0 - 9	Refer to Next-Gen Arithmetic Score
10-20	MAT 108 Intermediate Algebra <u>OR</u> MAT 102 Mathematical Concepts <u>OR</u> MAT 106 Math for Health Science <u>OR</u> MAT 107 Math for Elementary Education <u>OR</u> MAT 114 Math for the Technologies
Next-Gen Advanced Algebra Score	CCAC Course Placement
200 - 254	Refer to CCAC Elementary Algebra Score
255 -269	MAT 111 College Algebra <u>OR</u> MAT 120 Analytical Methods <u>OR</u> MAT 135 Discrete Mathematics <u>OR</u> MAT 142 Pre-Calculus <u>OR</u> MAT 147 College Trigonometry <u>OR</u> MAT 161 Elementary Statistics <u>OR</u> MAT 165 Probability and Statistics NOTE: MAT 142 & MAT 147 may be taken simultaneously
270 - 279	MAT 220 Business Calculus
280 – 300	MAT 201 Calculus 1

NEXT GENERATION ACCUPLACER SCORES / CCAC COURSE PLACEMENT

For tests taken 1/28/2019 and later

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NOTE: Any first-time, full-time, associate-degree-seeking student who places into all three developmental areas (including EAL), regardless of the level, must take SDS 102, Academic & Personal Development in the first semester.

In the case of a retest, the highest score is to be used for placement.

EXEMPTIONS FROM WRITING/READING ACCUPLACER TESTING

SAT Scores	ACT Scores	High School GPA*
WRITING: No exemption	WRITING: No exemption	WRITING: GPA = 2.8+ or 78%+ *
READING: Old Reading (Test dates thru February 2016) 'SAT-V' in Colleague: 510+ or New Reading & Writing (Test dates starting March 2016) 'SAT-RDGWRT' in Colleague): 510+	READING: Reading ('ACT-R' in Colleague): 21+	READING: GPA = 2.8+ or 78%+ * * 78% for schools not using 4.0 scale. Final HS transcript-within 5 years of enrollment at CCAC. International, home-schooled, and GED excluded. ('HS GPA Exempt' in Colleague)

NEXT-GEN ACCUPLACER WRITING/READING SCORES

Next-Gen Writing	CCAC Course Placement
200 – 229	ENG 089 Basic Writing Techniques
230 – 260	ENG 100 Basic Principles of Composition NOTE: Students scoring in this range <u>and</u> out of all Reading, are eligible for ALP.
261 – 300	ENG 101 English Composition 1 or ENG 111 Technical English 1 Student places in ENG 101, but DVS 101 or DVS 103 must be successfully completed or Reading test scores must exempt student from reading courses.

Next-Gen Reading	CCAC Course Placement
200 – 236	DVS 060 College Academic Strategies and DVS 070 College Reading 1 Recommend non-credit Adult Basic Education NOTE: First-time, degree-seeking students who place into this level of developmental reading must take DVS 060 <u>and</u> DVS 070 in their first semester. Upon successful completion of DVS 060/070 student progresses to DVS 101
237 – 245	DVS 060 College Academic Strategies and DVS 070 College Reading 1 NOTE: First-time, degree-seeking students who place into this level of developmental reading must take DVS 060 <u>and</u> DVS 070 in their first semester. Upon successful completion of DVS 060/070 students progress to DVS 101
246 -262	DVS 103 Advanced College Reading & Study Skills
263 – 300	No Reading Required

ESL ACCUPLACER READING AND WRITEPLACER SCORES

ESL Reading Skills	CCAC EAL Course Placement
20-72	EAL 070 EAL Reading 1 Strongly recommend additional non-credit reading literacy course prior to, or simultaneously with, EAL 070. See <i>EAL Developmental Studies Course Sequence</i> for additional information regarding EAL 061 and EAL 062
73-85	EAL 070 EAL Reading 1
86-109	EAL 101 EAL Reading 2
110-120	No EAL Reading courses required

ESL Writing - WritePlacer	CCAC EAL Course Placement
0 or 1	Insufficient to qualify for credit EAL Writing course. (Strongly recommend seeking non-credit ESL/EAL resources)
2 or 3	EAL 089 Academic English Structure
4 or 5	EAL 100 EAL Composition
6	ENG 101 English Composition 1 (Only if above Reading requirements are met)