

COLLEGE AND CAREER PATHWAYS

WHAT IS IT?

- **House Bill 1184** was passed by the 2012 General Assembly
- **HB1184** allows high school students to work towards a TCC degree or certificate while still in high school
- **There are currently three options:**
 - **General Studies Certificate**
 - **Social Sciences Transfer Degree**
 - **Mechatronics Certificate**

VOCABULARY CHECK

■ Advanced Placement (AP) Classes

- These are classes taught at the high school by high school teachers certified by the AP program
- Have an approved curriculum similar to a college class
- Heavy focus on reading and writing skills and critical thinking skills
- Students only earn college credit by earning a designated score on the AP exam in May
 - Tests are scored on a 1-5 scale.
 - Typically a score of 3, 4, 5 will either earn college credit or waive college requirements
- The AP exam is multiple choice and essay based
- Every college is different about what scores they accept in order to award college credit
- As of 2015-2016 school year – students pay \$91 per AP exam
- Students on free/reduced lunch program will not pay the full amount

VOCABULARY CHECK

■ Dual Enrollment Classes

- Taught at the high school by high school teachers who are certified by TCC
- Currently at IRHS, we only offer Dual Enrollment English 12
 - 2 semester class
 - Students must take both semesters to earn the high school English 12 credit
 - If student earns a C or better in both parts, he/she can earn college credit from VA colleges
 - There is a fee for taking the classes
 - As of 2016-2017 school year the fee is \$45 per TCC credit hour
 - Each semester class is 3 credit hours – so a \$135 fee each semester
 - There is NO financial aid for high school students for dual enrollment fees
 - Students are on the TCC grading scale – no pluses or minuses

WHAT DO I HAVE TO DO?

- If you are interested in pursuing one of the options, you need to pick one and make sure you are taking the right high school classes each year.
- This also means making choices when it comes to things like Governor's School for the Arts, IB Program, Academies, sports, etc.

- Let's look at each option
- *All fees listed are approximate and based on 2014-2015 school year. These fees may change from year to year.

FOUR YEAR PLANS

You will see suggested four year plans for each of the three programs. These are suggested four year plans and can be modified, but it is recommended that students follow the ninth grade plan to make sure they can meet all of the requirements in four years.

GENERAL STUDIES CERTIFICATE

- What do I get?
 - If you take the right classes and earn the appropriate scores on the AP exams, you will get a certificate that says you completed the program
- Is this different than just simply taking AP classes in high school?
 - This option says you are attempting and hopefully completing a set curriculum to earn this certificate.
- If I don't do this program, can I still earn college credits while still in high school?
 - Yes. Students have been earning college credits while still in high school for years.

COLLEGE AND CAREER PATHWAY

High School Curriculum



General Studies Certificate

Grade 9		
1 st Semester	2 nd Semester	Summer after Freshman Year
Honors English 9	Honors World History I	None (most students not of age)
Honors Biology	Geometry	
Algebra I	Health and PE	
Elective	Foreign Language I	
Grade 10		
1 st Semester	2 nd Semester	Summer after Sophomore Year
Honors Chemistry	Honors English 10	TCC - SDV 100 (1)
Algebra 2	Foreign Language 3	
AP European History	AP European History (6)	
Foreign Language 2	Health and PE	
Grade 11		
1 st Semester	2 nd Semester	Summer after Junior Year
Honors English 11	AP Art History (6)	TCC – Math 152 or 163 (3)
AP Biology	AP Biology (8)	
AP US History	AP US History (6)	
Trig	Elective	
Grade 12		
1 st Semester	2 nd Semester	Summer after Senior Year
DE English	DE English (6)	N/A
Physics	EPF	
Government	Fine Art or Career/Tech Ed	
Elective	Elective	

GENERAL STUDIES CERTIFICATE HIGHLIGHTS

- Total costs would approximately be \$814* during the 4 years of high school.
- 9th Grade - Student should complete Algebra 1 AND Geometry and should be taking Honors Biology.
- 10th Grade - Student should be completing the 3rd year of foreign language and taking Honors Chemistry and AP European History. Student will take one class at TCC in the summertime after 10th grade.
- 11th Grade - Student will take 3 AP classes. Student will take one class at TCC during the year and/or in the summertime.
- 12th Grade - Student will take Dual Enrollment English 12 at IRHS.

SOCIAL SCIENCES TRANSFER DEGREE

- **What do I get?**
 - If you take the right classes and earn the appropriate scores on the AP exams, you will get a degree that says you completed the program (comparable to the first two years of college)
- **Is this different than just simply taking AP classes in high school?**
 - This option says you are attempting and hopefully completing a set curriculum to earn this degree.
- **If I don't do this program, can I still earn college credits while still in high school?**
 - Yes. Students have been earning college credits while still in high school for years.

COLLEGE AND CAREER PATHWAY

High School Curriculum Social Sciences Transfer Degree

Grade 9		
1 st Semester	2 nd Semester	Summer after Freshman Year
Honors English 9	Honors World History I	None (most students not of age)
Honors Biology	Honors Chemistry	
Algebra II	Health and PE	
Foreign Language 2	Trig	
Grade 10		
1 st Semester	2 nd Semester	Summer after Sophomore Year
Honors World History II	Honors English 10	CPS - EPF
Math Analysis	AP Statistics (3)	TCC – MTH 152 or 163 (3)
AP Biology	AP Biology (8)	TCC - SDV 100 (1)
Foreign Language 3	Health and PE	
Grade 11		
1 st Semester	2 nd Semester	Summer after Junior Year
Honors English 11	AP Art History (6)	TCC – PED Elective (1)
Physics	Fine Art or Career/ Tech Ed	TCC - Elective (3)
AP US History	AP US History (6)	TCC - CST 100 (3) * or taken during the school year
AP Psychology (3)	AP Human Geography (3)	
Grade 12		
1 st Semester	2 nd Semester	Summer after Senior Year
DE English	DE English (6)	N/A
AP US Gov. & Politics (3)	Elective at the HS or TCC - CST 100	
TCC – SOC 201 (3)	TCC – SOC 202 (3)	
TCC – ECO 201 (3)	TCC – ECO 202 (3)	

SOCIAL SCIENCE TRANSFER DEGREE HIGHLIGHTS

- The approximate cost of all of the Dual Enrollment classes at TCC would be \$1,305*. AP test would cost \$637. Total of \$1,942.
- 9th Grade - Student should be scheduled for Algebra 2 and Trig and Biology and Chemistry
- 10th Grade - Student will take 2 AP classes and will need to look at the possibility of classes at TCC in the summertime and/or taking a Chesapeake class in summer school.
- 11th Grade - Student will take several AP classes during this year and possibly TCC classes in the summer.
- 12th Grade - Student will take Dual Enrollment and AP classes at IRHS and will take several classes at TCC.

AP SCORES

- **And remember – students have to score a 3 or better on the AP exams to earn the credits to earn the certificate or degree.**
- **Just taking the AP exams doesn't mean the student will earn the certificate or degree.**
- **Note that in the senior year, the student is taking AP Government. We won't get the AP scores until July after the senior year. The student would not be awarded the Social Sciences Transfer Degree until AFTER high school graduation.**

WHAT IS MECHATRONICS?

- This certificate will allow a student to take more classes in high school that focus on careers that require electronic, mechanical, computer and control skills. These kinds of jobs include robot installation and maintenance, automation equipment installation, troubleshooting and maintenance and PLC programming. You will learn how to install, maintain, and repair the mechanical, controls, fluid power systems, electrical and electronic equipment found in various fields. Your mechatronics training will equip you to make sure HVAC, mechanical, electrical and computer-driven systems run.

MECHATRONICS CERTIFICATE

- **What do I get?**
 - If you take the right classes and, you will get a certificate that says you completed the program
- **Is there a benefit to this program?**
 - Yes. If you are specifically interested in this career, you will be taking more classes that will directly relate to what you want to do when you graduate high school.
- **If I do this program, can I still go to college?**
 - Yes, but remember that you are going to earn a Standard Diploma - not an Advanced Studies Diploma.
 - Many VA colleges only require a Standard Diploma

COLLEGE AND CAREER PATHWAY

STANDARD DIPLOMA WITH MECHATRONICS CERTIFICATE

9th grade	
English 9	World History I
Algebra I	Biology
PE 9	Fine Art
Earth Science	Technology of Robotics Design (77711) (elective option)
10th grade	
English 10	Geometry
Elective	PE 10
Elec. Tech I (78151) - Home School (ELE 150 – A.C. and D.C. Circuit Fundamentals) DE 3Cr.	Elec. Tech II (78152) - Home School (ETR 281 – Digital Systems) DE 3Cr.
Physics for Technology I (science option)	Physics for Technology II (science option)
11th grade	
English 11	US History
Algebra 2	Economics and Personal Finance
<i>ELE 146 (Electric Motor Control) 4Cr. At TCC</i>	<i>ELE 233 (Programmable Logics Controller Systems I) 3Cr. At TCC</i>
12th grade	
English 12	<i>ELE 234 (Programmable Logics Controller Systems II) 3Cr. At TCC</i>
Government	<i>INS 233 (Process Control Integration) 4Cr. At TCC</i>
<i>INS 230 (Instrumentation I) 3Cr. At TCC</i>	<i>MEC 268 (Fluid Power Hydraulic) OR</i> <i>MEC 269 (Fluid Power Pneumatic) 3Cr. At TCC</i>
<i>ELE 246 (Industrial Robotics Programming) 3Cr. FULL YEAR COURSE At TCC</i>	

BOLD – TCC Class at home HS as Dual - Enrollment
Italicize Classes taken on Chesapeake TCC Campus

MECHATRONICS CERTIFICATE HIGHLIGHTS

- Students pursuing this Certificate will be working towards a Standard Diploma – not an Advanced Studies Diploma.
- Total fee of approximately \$1,305*
- 9th Grade – Must complete Algebra 1 and should take Earth Science and Biology.
- 10th Grade – Must take Electronics 1 and 2 at IRHS as a Dual Enrollment Class – students must pass the TCC placement test.
- 11th Grade – Must take 2 classes at TCC during the school day
- 12th Grade – Student will spend the entire 2nd semester at TCC

WHY DO IT?

- **What are the benefits of these programs?**
 - **Allows an academically gifted student to be challenged by more than a typical high school curriculum**
 - **Allows a student to spend time during the junior and/or senior year at TCC instead of at the high school**
 - **Would allow a student to highlight this on a college application that he/she is pursuing a special type of degree or certificate**
 - **For mechatronics certificate – student will take focused classes that will enable him/her to be better qualified after high school for certain types of jobs**
 - **Students may earn a certificate or TCC transfer degree that says they completed this program**

WHAT IF I HAVE MORE QUESTIONS AFTER TONIGHT?

- **Current 8th graders and their parents should contact the 8th grade Guidance Counselors.**
- **Current IRHS students should contact their assigned counselor.**