Stark State COLLEGE

3G Welding Certification Exam Preparation
College Credit Plus/CTE High School course example schedule

The following is an example course schedule for a high school student looking to complete the necessary coursework to take the American Welding Society Certified Welding certification exam, which stacks into the associate degree in indsutrial technology. The sequence in which these courses are completed is somewhat flexible. Visit **www.starkstate.edu/weldingcertificate** for more information, or talk to your guidance counselor.

	Semester	Course	Course Title	Credits	High School equivalent	Transfer Label	Available Online
9th Grade	Spring	ITD115	College and Career Success	3	Career Readiness	CCP	Yes
			Total credits	**3**			
10th Grade	Fall	COM121	Effective Speaking	3	Speech	CCP/TAG/OTM	Yes
	Spring	ITD122	Computer Applications	3	Computer	CCP/TAG	Yes
			Total credits	**6**			
11th Grade	Fall	MST127	Principles of Welding	3	Gas Metal, Shieled, Flux	CCP	No
	Fall	MST128	Welding Lab	3	Gas Metal, Shieled, Flux	CCP	No
	Spring	MST136	3G Welding Cert Exam Prep	2	Math	CCP	No
	Spring	MST121	Blueprint Reading	2	Engineer Design	CCP/Articulated Credit	Yes
			Total credits	**10**			
12th Grade	Fall	MST138	Gas Tungsten Arc Wedling	5	Gas Tungsten	CCP	No
	Fall	ENG124	College Composition	3	English	CCP/OTM	Yes
	Fall	MTH107 or MTH124	Industrial Math or College Algebra	3	Math	CCP/OTM	Yes
	Spring		Experiential learning opportunties (talk with your counselor for options)		Elective	Workbase learning	No
			Total credits	**11**			
			Total college credits completed	**30**			
			Credits remaining to complete the welding technologies one-year certificate	**16**			
			Credits remaining to complete the an associate degree in industrial technology	**18**			

All courses listed in ligh t blue prepares you for the American Welding Society Certified Welding certification exam.

Courses listed in grey are additional courses that stack into the one-year welding technologies certificate at Stark State College, completable after HS graduation.

Courses listed in white are additional courses that stack into the associate degree in industrial technology at Stark State College, completable after HS graduation.

Stark State COLLEGE

Administrative Office Professional
College Credit Plus/CTE High School course example schedule

The following is an example course schedule for a high school student looking to complete the necessary coursework to take the 12 point Microsoft Suite certification, which stacks into the associate of applied scince in administrative office professional. The sequence in which these courses are completed is somewhat flexible. Visit **www.starkstate.edu/administrative-office-professional** for more information, or talk to your guidance counselor.

	Semester	Course	Course Title	Credits	High School equivalent	Transfer Label	Available Online
9th Grade	Spring	ITD115	College and Career Success	3	Career Readiness	CCP	Yes
			Total credits	**3**			
10th Grade	Fall	ITD122	Computer Apps for Professionals	3	Technology Elective	CCP/TAG	Yes
	Spring	SOC225	Cultural Diversity	3	Social Studies	CCP/TAG	Yes
			Total credits	**6**			
11th Grade	Fall	AOT127	Word Processing - Microsoft Word	3	Elective	CCP	Yes
	Fall	AOT226	Spreadsheet - Microsoft Excel	3	Elective	CCP	Yes
	Spring	ENG124	College Composition	3	English	CCP/OTM	Yes
	Spring	ITD104	Computer Application - Power Point	1	Elective	CCP	Yes
			Total credits	**10**			
12th Grade	Fall	AOT107	Digital Technologies	1	Elective	CCP	No
	Fall	ITD108	Microsoft Outlook	1	Elective	CCP	Yes
	Spring	ITD140	Digital Project Management	3	Elective	CCP	Yes
	Spring	AOT236	Database Application - Microsoft Access	3	Elective	CCP	No
			Total credits	**8**			

Total college credits completed	**27**
Credits remaining to complete the administrative office professional one-year certiicate	**16**
Credits remaining for an associate of applied business degree in administrative office professional	18

All courses listed in light blue prepares you for the 12-point Microsoft Office specialist certification exams.

Courses listed in grey are additional courses that stack into the one-year certificate for administrative office professional (along with SOC225, AOT132, AOT134 and AOT227), which then stack into the associate of applied business in administrative office professional.

Automation and Robotics
College Credit Plus/CTE High School course example schedule

The following is an example course schedule for a high school student looking to complete the necessary coursework to prepare students for the FANUC-Handling Tool Operation and Programming and CompTIA Network+ certifications. The sequence in which these courses are completed is somewhat flexible. Visit **www.starkstate.edu/automation-and-robotics-technology** for more information, or talk to your high school counselor.

Semester	Course	Course Title	Credits	High School equivalent	Transfer Label	Available Online
9th Grade						
Spring	IDS115	College and Career Success	3	Career Readiness	CCP	Yes
		Total credits	**3**			
10th Grade						
Fall	AIT121	Industrial Internet of Things	3	Elective	CCP	No
		Total credits	**3**			
11th Grade						
Fall	AIT139	Introduction to Robotics	2	Robotics	Articulated	Yes
Fall	MTH125	College Algebra	4	Math	CCP	Yes
Spring	MTH130	Trigonometry	3	Math	CCP	Yes
Spring	AIT220	Industrial Robotics*	4	Elective	CCP	No
		Total credits	**13**			
12th Grade						
Fall	EET120	DC Circuit Analysis	4	DC/AC Electrical Circuits	CTAG/TAG/CCP	No
Fall	ENG	College Composition	3	English	CCP	Yes
Spring	CSE122	Progamming Logic & Problem Solving	3	Programming	CTAG/CCP	Yes
Spring	NET121	Introduction to Networking*	3	Networking/CompTIA Network+	CTAG/CCP	No
		Total credits	**13**			

Total college credits completed	**32**
Credits remaining to complete automation and robotics technician certificate	13
Credits remaining to complete Automation and Robotics Technology associate degree	18

*AIT220 prepares for FANUC-HandlingTool Operation and Programming certification and *NET121 prepares for CompTIA Network+certification

Courses listed in grey are additional courses that stack into the associate of applied science - Automation and Robotics Technology degree at Stark State College, completable after HS graduation.

Automotive Technology
College Credit Plus/CTE High School course example schedule

The following is an example course schedule for a high school student looking for a career in the automotive service industry. Completing the courses below prepares students for the Automotive Service Excellence Maintenance and Light Repair certification, which stacks into an associate degree in Automotive Technology. The sequence in which these courses are completed is somewhat flexible. Visit **www.starkstate.edu/automotive** for more information, or talk to your guidance counselor.

	Semester	Course	Course Title	Credits	High School equivalent	Transfer Label	Available Online
9th Grade	Fall	IDS115	College and Career Success	3	Career Readiness	CCP	Yes
			Total credits	**3**			
10th Grade	Fall	PHL122	Ethics	3	Humanities Elective	CCP/TAG/OTM	Yes
			Total credits	**3**			
11th Grade	Fall	AUT121	Automotive Technical Skills	2	Ground Trans	CCP/CTAG	No
	Fall	ENG124	College Composition	3	English	CCP/OTM	Yes
	Spring	MTH125	College Algebra	4	Math	CCP/OTM	Yes
	Spring	AUT125	Automotive Electrical and Accessory Systems	4	Elective	CCP/CTAG	No
	Spring	AUT122	Automotive Systems and Engine Technology	4	Ground Trans	CCP/Articulated	No
			Total credits	**17**			
12th Grade	Fall	AUT124	Vehicle Chassis Systems	4	Auto Braking, Suspension	CCP/CTAG	No
	Fall	ENG221	Technical Writing	3	Elective	CCP/OTM	Yes
	Spring	AUT126	Automotive HVAC Systems	2	Elective	CCP	No
	Spring	AUT123	Engine Diagnosis and Major Service	4	Ground Transportation Engine	CCP	No
			Total credits	**13**			
			Total college credits completed	**36**			
			Credits remaining to complete Automotive Technology associate degree	**24**			

All courses listed in this color prepare students for Automotive Service Excellence Maintenance and Light Repair Certification.

Courses listed in grey are additional courses that stack into an associate degree in Automotive Technology at Stark State College, completable after HS graduation.

Emergency Fire Services
College Credit Plus/CTE High School course example schedule

The following is an example course schedule for a high school student looking to complete the necessary coursework to complete firefighter certification exam. The sequence in which these courses are completed is somewhat flexible. Visit **www.starkstate.edu/emergency-fire-services** for more information, or talk to your guidance counselor.

	Semester	Course	Course Title	Credits	High School equivalent	Transfer Label	Available Online
9th Grade	Spring	IDS115	College and Career Success	3	Career Readiness		Yes
			Total credits	**3**			
10th Grade	Fall	ITD	Computer Apps for Professionals	3	Technology Elective		Yes
	Spring	COM122	Interpersonal Communication	3	Elective		No
			Total credits	**6**			
11th Grade	Fall	BIO101	Intro to Anatomy and Physiology	3	Science		Yes
	Fall	PHL122	Ethics	3	Elective		Yes
	Spring	MTH125	College Algebra	4	Math		Yes
	Spring	ENG124	College Composition	3	English		Yes
			Total credits	**13**			
12th Grade	Fall	EMS121	Emergency Medical Technician	7	Emergency Medical Tech		No
	Spring	FST121	Firefighter I & II	11	Firefighter I & II		No
			Total credits	**18**			
			Total college credits completed	**40**			
			Credits remaining to complete associate of applied science emergency fire services	**33**			

The course listed in light blue prepares student for Ohio Department of Public Safety - Ohio Firefighter II certification exam.

The course listed in grey prepares student for Ohio Department of Public Safety - EMT Basic certification exam.

Courses listed in white are additional courses that stack into the associate of applied science - emergency fire services degree at Stark State College, completable after HS graduation.

Emergency Medical Technician (EMT) Certification

College Credit Plus/CTE High School course example schedule

The following is an example course schedule for a high school student looking to complete the necessary coursework to complete emergency medical technician (EMT) certification. The sequence in which these courses are completed is somewhat flexible. Visit **www.starkstate.edu/emergency-medical-services** for more information, or talk to your guidance counselor.

	Semester	Course	Course Title	Credits	High School equivalent	Transfer Label	Available Online
9th Grade	Spring	IDS115	College and Career Success	3	Career Readiness	CCP	Yes
			Total credits	**3**			
10th Grade	Fall	ITD	Computer Apps for Professionals	3	Technology Elective	CCP/TAG	Yes
			Total credits	**3**			
11th Grade	Fall	BIO101	Intro to Anatomy and Physiology	3	Science	CCP/OTM	Yes
	Fall	PHL122	Ethics	3	Elective	CCP/TAG	Yes
	Spring	MTH125	College Algebra	4	Math	CCP/OTM	Yes
	Spring	PSY121	General Psychology	3	Social Studies	CCP/TAG/OTM	Yes
			Total credits	**13**			
12th Grade	Fall	EMS	Emergency Medical Technician	7	Emergency Medical Tech	CCP/CTAG	No
	Fall	ENG	College Composition	3	English	CCP/OTM	Yes
	Spring	BIO125	Medical Terminology	3	Science	CCP/CTAG/TAG	Yes
			Total credits	**13**			
			Total college credits completed	**32**			
			Credits remaining to complete associate of applied science emergency medical services	**32**			

All courses listed in light blue prepares student for Ohio Department of Public Safety - EMT Basic Certification exam.

Courses listed in grey are additional courses that stack into the associate of applied science - emergency medical services degree at Stark State College, completable after HS graduation.

Help Desk and Computer User Support
College Credit Plus/CTE High School course example schedule

The following is an example course schedule for a high school student looking to prepare for Comp TIA A+ and Network + certification exams. These courses stack into both a certificate and an associate degree in computer technology-help desk/computer support specialist. The sequence in which these courses are completed is somewhat flexible. Visit **www.starkstate.edu/IT** for more information, or talk to your guidance counselor.

	Semester	Course	Course Title	Credits	High School equivalent	Transfer Label	Available Online
9th Grade	Fall	IDS115	College and Career Success	3	Career Readiness	CCP	Yes
			Total credits	**3**			
10th Grade	Fall	MTH108 or MTH124	Explorations in Modern Math / College Algebra	3-4	Elective/Math	CCP/OTM	Yes
	Spring	COM121	Effective Speaking	3	Speech	CCP/TAG/OTM	Yes
			Total credits	**6**			
11th Grade	Fall	CIS121	Help Desk Customer Support Concepts	3	Information Technology	CCP/CTAG	Yes
	Fall	CPD121	Data Modeling and Database Design	3	Elective	CCP	Yes
	Spring	NET120	PC Upgrading and Maintenance	3	Computer Hardware	CCP/CTAG	No
	Spring	NET121	Intro to Computer Networking	3	Computer Hardware	CCP/CTAG	No
			Total credits	**12**			
12th Grade	Fall	NET131	Microsoft Client Operating Systems	3	Elective	CCP/CTAG	No
	Fall	ENG124	College Composition	3	English	CCP/OTM	Yes
	Spring	CPD123	Structure Query Language	3	Elective	CCP	Yes
	Spring	NET244	Microsoft Networking I	3	Elective	CCP/CTAG	No
			Total credits	**12**			

Total college credits completed	**33-34**
Credits remaining to complete computer maintenance and desktop support technician certificate	9
Credits remaining to complete Computer Technology associate degree	19

All courses listed in light blue prepare the student for Comp TIA A+ and Network + certification exams.

Courses listed in grey are additional courses that stack into the Computer Maintenance and Desktop Support Technician certificate at Stark State College, completable after HS graduation.

Courses listed in white are additional courses that stack into the Computer Technology-Help Desk/Computer Support Specialist associate's degree at Stark State College, once certificate has been achieved.

Heating, Ventilation, Air Conditioning and Refrigeration

College Credit Plus/CTE High School course example schedule

The following is an example course schedule for a high school student looking to complete the necessary coursework to prepare students for the Environmental Protection Agency Refrigeration Recovery Core + Level II certification exam. The sequence in which these courses are completed is somewhat flexible. Visit **www.starkstate.edu/HVACR** for more information, or talk to your guidance counselor.

	Semester	Course	Course Title	Credits	High School equivalent	Transfer Label	Available Online
9th Grade	Spring	IDS115	College and Career Success	3	Career Readiness	CCP	Yes
			Total credits	**3**			
10th Grade	Fall	ITD122	Computer Applications for Professionals	3	Technology Elective	CCP/TAG	Yes
	Spring	COM121	Effective Speaking	3	Speech	CCP/TAG/OTM	Yes
			Total credits	**6**			
11th Grade	Fall	HVC121	HVAC Principles I	3	Mech, Electrical and Plumbing systems	CCP	No
	Fall	MTH125	College Algebra	4	Math	CCP/OTM	Yes
	Spring	HVC122	HVAC Principles II	3	Mech, Electrical and Plumbing systems	CCP	No
	Spring	MST121	Blueprint Reading	2	Engineering Design	CCP	Yes
			Total credits	**12**			
12th Grade	Fall	HVC227	HVAC Field Installation Techniques and Procedures	4	HVAC Refridgeration	CCP	No
	Fall	ENG124	College Composition	3	English	CCP/OTM	Yes
	Spring	HVC125	Sheet Metal Layout and Fabrication	4	Sheet Metal	CCP	No
	Spring	HVC234	HVAC Electrical Systems and Applications	3	Heating and Cooling Systems	CCP	No
			Total credits	**14**			
			Total college credits completed	**35**			
			Credits remaining to complete HVACR certificate	**6**			
			Credits remaining to complete HVACR associate degree *(after certificate is achieved)*	**24**			

All courses listed in light blue prepare the student for the Environmental Protection Agency Refrigeration Recovery Core + Level II certification exam.

Courses listed in grey are additional courses that stack into the HVACR certificate at Stark State College, completable after HS graduation.

Courses listed in white are additional courses that stack into the HVACR associate degree at Stark State College, once certificate has been achieved.

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Medical Billing Specialist Certificate
College Credit Plus/CTE High School course example schedule

The following is an example course schedule for a high school student looking to explore the medical billing career field and even complete the necessary coursework to take the National Healthcareer Association certified billing and coding specialist exam. The sequence in which these courses are completed is somewhat flexible. Visit **www.starkstate.edu/health** for more information, or talk to your guidance counselor.

	Semester	Course	Course Title	Credits	High School equivalent	Transfer Label	Available Online
9th Grade	Fall	IDS115	College and Career Success	3	Career Readiness	CCP	Yes
	Fall	ITD122	Computer Applications for Professionals	3	Computer Science (Elective)	CCP/TAG	Yes
			Total credits	**6**			
10th Grade	Fall	BIO125	Medical Terminology	3	Biology	CCP/CTAG/TAG	Yes
	Fall	MTH124	Statistics	3	Math	CCP/OTM	Yes
	Spring	BIO101	Intro to Anatomy and Physiology	3	Biology	CCP/OTM	Yes
			Total credits	**9**			
11th Grade	Fall	HIT101	Intro to Medical Billing	3	Billing and Coding (072145)	CCP	Yes
	Fall	HIT230	Health Care Delivery in US	2	Elective	CCP	Yes
	Spring	HIT102	Medical Claims Methodology	4	Elective	CCP	Yes
	Spring	HIT123	Health Care Legal and Ethical Issues	2	Health Info Management (072140)	CCP/TAG	Yes
			Total credits	**11**			
12th Grade	Fall	ENG124	College Composition	3	English	CCP/OTM	Yes
	Fall	PSY121	Psychology	3	Social Studies	CCP/TAG/OTM	Yes
	Spring		Experiential learning opportunities (talk with your counselor for options)				
			Total credits	**6**			

Total college credits completed	**32**
Credits remaining to complete Medical Coding certificate	**27**
Credits remaining to complete health information management (HIM) associate degree	18

*All courses listed in light blue lead to a **12 point credential** from the National Healthcareer Association (NHA)- Certified Billing & Coding Specialist, and a **Medical Billing specialist certificate** from Stark State College. Many of these courses also stack into the **Medical Coding** certificate.*

Both Medical Billing and Medical Coding can stack into a **Health Information Management (HIM)** associate degree.

Phlebotomy Certificate
College Credit Plus/CTE High School course example schedule

Stark State COLLEGE

The following is an example course schedule for a high school student looking to complete the necessary coursework to earn a phlebotomy certificate. Phlebotomy is a great first step toward an associate degree in medical assisting. The sequence in which these courses are completed is somewhat flexible. Visit **www.starkstate.edu/health** for more information, or talk to your guidance counselor.

	Semester	Course	Course Title	Credits	High School equivalent	Transfer Label	Available Online
9th Grade	Fall	IDS115	College and Career Success	3	Career Readiness	CCP	Yes
	Fall	ITD122	Computer Applications for Professionals	3	Computer Science (Elective)	CCP/TAG	Yes
			Total credits	**6**			
10th Grade	Fall	PSY121	General Psych	3	Social Studies	CCP/TAG/OTM	Yes
	Spring	BIO125	Medical Terminology	3	Biology	CCP/TAG/CTAG	Yes
	Spring	COM122	Interpersonal Comm	3	Speech	CCP/TAG/OTM	Yes
			Total credits	**9**			
11th Grade	Fall	NTR 121	Nutrition for Health	3	Elective	CCP/TAG	Yes
	Spring	BIO101	Intro to A&P	3	Biology	CCP/OTM	Yes
			Total credits	**6**			
12th Grade	Fall	MAT234	Introduction to Phlebotomy	3	Elective	CCP/CTAG	No
	Fall	MAT103	Medical Law & Ethics	3	Elective	CCP	Yes
	Spring	MAT235	Phlebotomy Practicum *(must be 18 years old)*	1	Elective	CCP	Yes
			Total credits	**7**			

Total college credits completed	**28**
Credits remaining to complete Medical Assisting associate degree	**43 - 44**

All courses listed in light blue lead to a phlebotomy certificate.

Courses listed in grey are additional courses that stack into the Medical Assisting associate degree at Stark State College, completable after HS graduation.

Precision Machining and CNC Programming
College Credit Plus/CTE High School course example schedule

The following is an example course schedule for a high school student looking to complete the necessary coursework to take the NIMS machining level I certification exam. The sequence in which these courses are completed is somewhat flexible. Visit **www.starkstate.edu/academics** for more information, or talk to your guidance counselor.

	Semester	Course	Course Title	Credits	High School equivalent	Transfer Label	Available Online
9th Grade	Spring	ITD115	College and Career Success	3	Career Readiness	CCP	Yes
			Total credits	**3**			
10th Grade	Fall	COM121	Effective Speaking	3	Speech	CCP/TAG/OTM	Yes
	Spring	ITD122	Computer Apps for Professionals	3	Computer	CCP/TAG	Yes
			Total credits	**6**			
11th Grade	Fall	AIT122	Machine Tools	4	Machine Tool	CCP	No
	Fall	IET223	Computer Numerical Controls	4	Elective	CCP	No
	Spring	MTH125	College Algebra	4	Math	CCP/OTM	Yes
	Spring	AIT123	Advanced Machine Tools	4	Industrial Milling	CCP	No
			Total credits	**16**			
12th Grade	Fall	DET121	Basic AutoCAD	3	AutoCAD	CCP/TAG/CTAG	Yes
	Fall	ENG124	College Composition	3	English	CCP/OTM	Yes
	Spring	DET121	Engineering Drawing	3	Engineering Design	CCP/CTAG	No
	Spring		Experiential learning opportunties (talk with your counselor for options)				
			Total credits	**9**			

Total college credits completed	**34**
Credits remaining to complete one-year certificate	**13**
Credits remaining to complete associate of applied science in industrial technology	**36**

All courses listed in light blue prepares you for the NIMS machinging level I certification exam.

Courses listed in grey are additional courses that stack into the associate of applied science in industrial technology at Stark State College, completable after HS graduation.