

## 2011 - 2012 Program of Study - Secondary

Submitted by CTPD Name: Canton Local

CTPD Number: 115

### Secondary Program Information

Career Field: Information Technology (IT)

School District Name: Canton Local Schools

Pathway Name: Programming & Software Development (IT)

School District IRN: 049833

Specialization Name (if applicable): \_\_\_\_\_

Building (location) Name: Canton South High School

EMIS Subject Code: 140230

Building (location) IRN: 004812

Local Program Name: Programming and Videob Gaming

For JVSD only: specify grade level(s) and building location for associate schools component:

Grade		School Name	
Courses	10	Credits	30

Identify the # or range of **POTENTIAL** college courses and credits in the career field:

Required or Elective Academic Courses and Other Courses												Career and Technical Education Courses				
Grade	English	Code	Math	Code	Science	Code	Social Studies	Code	Course	Code	Course	Code	CTE Course	Code	CTE Course	Code
9	English 9	RA	Algebra I or Geometry	RA	Physical Science	RA	World History	RA	Health	RA	Web Page Design	RE				
10	English 10	RA	Geometry or Algebra II	RA	Biology/ Chemistry/ Lab	RA	US History	RA	Foreign Language	RE	Leadership, Wealth Management	RE				
11	English 11 (IT)	RA	Algebra II or Pre-Calc	RA	Chemistry/Lab	RE	Gov/Econ	RA	Foreign Language	RE			Programming I	CC		
12	English 12 (Dual Credit option)	RA CC	Pre-Calc (DE) or Calculus	RA RE CC	Physics (DE)	RE CC	Political Science (DE)	CC RE	Statistics (DE)	RE CC	Tech Apps	RE CC	Programming II	CC		

Contact Person: Nicki Howard

Title: Director of Secondary Ed

Phone: 330-484-8000

E-mail: [howard@cantonlocal.org](mailto:howard@cantonlocal.org)

Date Completed: 2/23/2011

Specify Industry Credential Opportunities (if applicable):

**CODES** (use all that apply)

RA: Required Courses

RE: Recommended Electives

CT2: Eligible for CT2 Credit

\*CC: College Credit Opportunities based on articulation or dual/concurrent enrollment agreements in career field

## 2011 - 2012 Program of Study - Postsecondary Semesters

Postsecondary Institution: Stark State College

College Major: (if applicable) Comp. Network Admin. & Security- CISCO College Degree: (if applicable) AAS

Specify Industry Credential Opportunities (if applicable): \_\_\_\_\_  
 Certificate, Adult and/or Apprenticeship Program: (if applicable) \_\_\_\_\_

Secondary Program Name: Programming & Video Gaming Secondary School Name: Canton South High School District Name: Canton Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>1st Sem.</b>	Comp. App. For Tech. Prof. ECA 122	RT CC	Programming Logic & Problem Solving ECA 127	RT CC	PC Upgrading & Maintenance ECA 145	RT	Intro to Computer Networking ECA 146	RT	College Algebra MTH 125	RA						
<b>2nd Sem.</b>	MS Windows Vista & 2003 Server ECA 131	TR	CCNA Phase I ECA 134	RT	CCNA Phase II ECA 135	RT	UNIX/LINUX Operating Environment ECA 277	RT	College Composition ENG 124	RA						
<b>3rd Sem.</b>	College Composition II ENG231	RA	Arts/ Humanities/ Social Science Elective	RE	Pre-Calc. MTH 126	RA										
<b>4th Sem.</b>	CCNA Phase III & IV ECA250	RA	Microsoft Wind. Server 2003 Network Infrastructure ECA 244	RT	Physical Science Elective	RE	Voice over IP Fundamentals ECA284	RT								
<b>5th sem.</b>	Effective Speaking COM 121	RT TAG	Cisco IP Telephony ECA285	RT	Securing Networks w/ Switches & Routers ECA295	RT	Firewall & Network Security ECA 278	RT	Technical Elective	RE						

**Contact Person:** Gabriela Rosu  
**Title:** Dept. Chair/Instructor Information Technologies  
**Phone:** 330-494-6170 X4111  
**E-mail:** [grosu@starkstate.edu](mailto:grosu@starkstate.edu)

**POTENTIAL number or range of college credits available to secondary pathway students**

Date Completed: 3/23/2010

**CODES** (use all that apply)

- RT:** Required Technical Courses      **CT2:** Eligible for CT2 Credit
- RA:** Other Required Courses          **TAG:** Eligible for TAG Credit
- RE:** Recommended Electives
- CC:** Other College Credit Opportunities (based on articulation or dual/concurrent enrollment agreements with partner high school)

## 2011 - 2012 Program of Study - Postsecondary Semesters

Postsecondary Institution: Stark State College

College Major: (if applicable) Comp. Network Admin. & Security- UNIX/LINUX College Degree: (if applicable) AAS

Specify Industry Credential Opportunities (if applicable): \_\_\_\_\_

Certificate, Adult and/or Apprenticeship Program: (if applicable) \_\_\_\_\_

Secondary Program Name: Programming & Video Gaming Secondary School Name: Canton South High School District Name: Canton Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>1st Sem.</b>	Comp. App. For Tech. Prof. ECA 122	RA CC	PC Upgrading & Maintenance ECA 145	RT	Cryptography ECA129	RT	Intro to Computer Networking ECA 146	RT	College Algebra MTH 125	RA						
<b>2nd Sem.</b>	Oracle Database: Intro to SQL ECA142	RT	Database Design & Modeling ECA253	RT	UNIX/LINUX Operating Environment ECA 277	RT	College Composition ENG 124	RA	Pre-Calc. MTH 126	RA						
<b>3rd Sem.</b>	College Composition II ENG231	RA	Physical Science	RA												
<b>4th Sem.</b>	Microsoft Client Operating System ECA131	RT	UNIX/LINUX Forensics ECA286	RT	UNIX/LIUNIX Shell Scripting ECA254	RT	Oracle Database: Architecture & Admin ECA270	RT	UNIX/LIUNIX System Admin ECA274	RT	UNIX/LIUNIX Network Admin ECA276	RT				
<b>5th sem.</b>	Effective Speaking COM 121	RA TAG	Oracle Database 10g: Architecture & Administration ECA271	RT	Pick One: ECA273 or ECA127#	RT #CC	Web Server Administration ECA279	RT	Arts/ Humanities/ Social Science Elective	RE						

**Contact Person:** Gabriela Rosu

**Title:** Dept Chair/Instructor Information Technologies

**Phone:** 330-494-6170 X4111

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**POTENTIAL number or range of college credits available to secondary pathway students**

Date Completed: 3/23/2010

**CODES** (use all that apply)

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**RE:** Recommended Electives

**CC:** Other College Credit Opportunities (based on articulation or dual/concurrent enrollment agreements with partner high school)

## 2011 - 2012 Program of Study - Postsecondary Semesters

**Postsecondary Institution:** Stark State College  
**College Major:** *(if applicable)* Computer Engineering      **College Degree:** *(if applicable)* AAS  
**Specify Industry Credential Opportunities (if applicable):** \_\_\_\_\_  
**Certificate, Adult and/or Apprenticeship Program:** *(if applicable)* \_\_\_\_\_  
 Secondary Program Name: Programming & Video Gaming      Secondary School Name: Canton South High School      District Name: Canton Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>1st Sem.</b>	Information Technology Seminar ITD 121	RT	Comp. App. For Tech. Prof. ECA 122	RA CC	Programming Logic & Problem Solving ECA 127	RT CC	Data Modeling & Database Design ECA 253	RT	College Composition ENG 124	RA	Electrical Circuits & Devices EST 130	RT				
<b>2nd Sem.</b>	Effective Speaking COM 121	RA TAG	Visual Basic Development ECA 128	RT	Java Programming ECA 223	RT	Electronic Devices & Circuits EET 123	RT	College Algebra MTH 125	RA						
<b>Summer</b>	Technical Report Writing ENG 221	RA	Arts/ Humanities/ Social Science Elective	RE	Arts/ Humanities/ Social Science Elective	RE										
<b>3rd Sem.</b>	Assembly Lang. Programming ECA 227	RT	Technical Elective	RT	PLC's & Industrial Controls I EET 227	RT	Pre-Calc. MTH 126	RA	Trig. MTH 128	RA						
<b>4th Sem.</b>	Technical Elective	RT	Pulse & Digital Integrated Circuits EET 262	RT	Concepts of Calculus MTH 221	RA	Physics I PHY 121	RA TAG								

**Contact Person:** Larry Ray  
**Title:** Department Chair  
**Phone:** 330-966-5461 X4918  
**E-mail:** [lray@starkstate.edu](mailto:lray@starkstate.edu)

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**RT:** Required Technical Courses      **CT2:** Eligible for CT2 Credit  
**RA:** Other Required Courses      **TAG:** Eligible for TAG Credit  
**RE:** Recommended Electives  
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**POTENTIAL number or range of college credits available to secondary pathway students**

Date Completed: 3/23/2010

## 2011 - 2012 Program of Study - Postsecondary Semesters

Postsecondary Institution: Stark State College

College Major: *(if applicable)* Computer Programming & Database Tech College Degree: *(if applicable)* AAS

Specify Industry Credential Opportunities (if applicable): \_\_\_\_\_

Certificate, Adult and/or Apprenticeship Program: *(if applicable)* \_\_\_\_\_

Secondary Program Name: Programming & Video Gaming Secondary School Name: Canton South High School District Name: Canton Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>1st Sem.</b>	Information Technology Seminar ITD 121	RT	Comp. App. For Tech. Prof. ECA 122	RA CC	Programming Logic & Problem Solving ECA 127	RT CC	Internet/Intranet Design & Development ECA228	RT CC	Data Modeling & Database Design ECA 253	RT	College Composition ENG 124	RA				
<b>2nd Sem.</b>	Effective Speaking COM 121	RA TAG	Visual Basic Development ECA 128	RT	Database Elective	RT	Web Development w/ JavaScript & AJAX ECA225	RT	Advanced Cascading Style Sheets ECA234	RT						
<b>Summer</b>	Technical Report Writing ENG 221	RA	Arts/ Humanities/ Social Science Elective	RE	Statistics MTH222	RA										
<b>3rd Sem.</b>	Generating Reports for Decision Making ECA265	RT	Technical Elective	RT	Database Elective	RT	Web Development with PHP & MySQL ECA 236	RT	Arts/ Humanities/ Social Science Elective	RE						
<b>4th Sem.</b>	Business Admin BUS121	RA	Data Mining & Data Warehousing ECA 252	RT	Database Elective	RT	Advanced Web Development with PHP & MySQL ECA 268	RT	Technical Elective	RT						

Contact Person: Larry Ray

Title: Department Chair

Phone: 330-966-5461 X4918

E-mail: [lray@starkstate.edu](mailto:lray@starkstate.edu)

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## 2011 - 2012 Program of Study - Postsecondary Semesters

Postsecondary Institution: \_\_\_\_\_

Stark State College

College Major: *(if applicable)* Computer Science- Video Game

College Degree: *(if applicable)* AAS

Specify Industry Credential Opportunities (if applicable): \_\_\_\_\_

Certificate, Adult and/or Apprenticeship Program: *(if applicable)* \_\_\_\_\_

Secondary Program Name: Programming & Video Gaming

Secondary School Name: Canton South High School

District Name: Canton Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>1st Sem.</b>	Information Technology Seminar IDT 121	RT	Comp. App. For Tech. Prof. ECA 122	RA CC	Programming Logic & Problem Solving ECA 127	RT CC	Flash Animation & Design ECA 155	RT	Game Design ECA 156	RT CC	College Algebra MTH 125	RA				
<b>2nd Sem.</b>	C++ Programming ECA 222	RT CC	Java Programming ECA 223	RT	Advanced Flash Animation & Design ECA 267	RT	Arts/ Humanities/ Social Science Electives	RE	College Composition ENG 124	RA						
<b>Summer</b>	Effective Speaking COM 121	RA TAG	Technical Report Writing ENG 221	RA												
<b>3rd Sem.</b>	Advanced C++ Programming ECA 224	RT	Advanced Gaming & Simulation Topics ECA 240	RT	2D Game Design & Development ECA 281	RT	Flash ActionScripting ECA 282	RT	Pre-Calculus MTH 126	RA	Trig MTH 128	RA				
<b>4th Sem.</b>	Advanced Java Programming ECA 239	RT	Technical Elective	RT	Technical Elective	RT	3D Game Design & Development ECA 241	RT	Physics I PHY 121	RA TAG						

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Postsecondary Institution: \_\_\_\_\_

Stark State College

College Major: (if applicable) Computer Science & Engineering

College Degree: (if applicable) AAS

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Certificate, Adult and/or Apprenticeship Program: (if applicable) \_\_\_\_\_

Secondary Program Name: Programming & Video Gaming

Secondary School Name: Canton South High School

District Name: Canton Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>1st Sem.</b>	Information Technology Seminar IDT 121	RT	Comp. App. For Tech. Prof. ECA 122	RA CC	Programming Logic & Problem Solving ECA 127	RT CC	Internet/Intranet Design & development ECA 228	RT CC	Data Modeling & Database Design ECA 253	RT	College Composition ENG 124	RA				
<b>2nd Sem.</b>	Visual Basic Development ECA 128	RT	C++ Programming ECA 222	RT CC	Java Programming ECA 223	RT	Active Server Page Development ECA 229	RT	College Algebra MTH 125	RA						
<b>Summer</b>	Effective Speaking COM 121	RA TAG	Technical Report Writing ENG 221	RA	Arts/ Humanities/ Social Science Electives	RE										
<b>3rd Sem.</b>	Java Web Database Programming ECA 230	RT	Soft. Eng. For Hand-Held Devices ECA 260	RT	Soft. Eng. For Robotics ECA 261	RT	Pre-Calculus MTH 126	RA	Trig. MTH 128	RA						
<b>4th Sem.</b>	Technical Elective	RT	Windows Programming with C ECA 226	RT	Adv. Java Programming ECA 239	RT	Technical Elective	RT	Physics I PHY 121	RA TAG						

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