

## 2011 - 2012 Program of Study - Secondary

Submitted by CTPD Name: Plain Local Schools

CTPD Number: 93

### Secondary Program Information

Career Field: Engineering & Science Technologies (EST)

School District Name: Plain Local

Pathway Name: Engineering Technology (EST)

School District IRN: Engineering Tech

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

Building (location) Name: GlenOak High School

EMIS Subject Code: 171810

Building (location) IRN: 028365

Local Program Name: Engineering Technologies

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

Grade		School Name	
Courses	7	Credits	15

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 I	RA	Tans to Alg, Alg I, or Geom.	RA	Integrated Lab Science 9	RA	The American Experience I	RA	Health, PE	RE	Foreign Language or Career, Computer Applications	RE				
10	English II	RA	Alg I, Geom, or Alg II	RA	Integrated Lab Science	RA	The American Experience II	RA	PE, Computer Science	RE	Foreign Language	RE				
11	English III	RA	Alg II	RA	Physics, Chem or Tech Physics/LAB	RA	World Experience	RA					Engineering Tech Lab I	CC CT2		
12	English IV, Brig Lit, Humanities or AP English	RA	Pre-Calc, or AP Calc	RA	Chem., Physics, AP Physics	RA							Engineering Tech Lab II	CC CT2		

Contact Person: Faith Kittoe

Title: Compact Director

Phone: 330-492-3500

E-mail: [kittoef@plainlocal.org](mailto:kittoef@plainlocal.org)

Date Completed: 12/13/2010

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 of Technology

College Major: *(if applicable)* Electrical Engineering Technology

College Degree: *(if applicable)* AAS

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

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

Secondary Program Name: Engineering Tech

Secondary School Name: GlenOak High School

District Name: Plain Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>Year 1 1st Sem.</b>	Programming Logic & Problem Solving ECA127	RT	DC Circuit Analysis EET120	RT TAG	Engineering Technology Seminar ETD121	RT CC	College Composition ENG124	RA	College Algebra MTH125	RA CC	Trigonometry MTH128	RA CC				
<b>Year 1 2nd Sem.</b>	Descriptive Geometry DET122	RT TAG	Electronic Devices & Circuits EET123	RT	Electrical Machines EET126	RT	Pre-Calculus MTH126	RA	Physics I PHY121	RA TAG CC						
<b>Year 2 1st Sem.</b>	Basic AutoCAD DET125	RT TAG CC CT2	NEC & Electrical Systems Design EET128	RT	Effective Speaking COM121	RA TAG	Concepts of Calculus MTH221	RA	Technical Report Writing ENG221	RA	Visual Basic Programming ECA128	RT				
<b>Year 2 2nd Sem.</b>	Transmission & Distribution EET226	RT	PLC & Industrial Controls II EET228	RT	Industrial Electronics EET232	RT	Technical Project- Electrical EET233	RT:	Arts/ Humanities/ Social Science Elective	RE	Optics EET129	RT	Circuit Manufacturing Techniques EET125	RT		

**Contact Person:** Frank Fuller

**Title:** Dept Chair/Assistant Prof Engineering

**Phone:** 330-494-6170 X4636

**E-mail:** ffuller@starkstate.edu

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

Date Completed: \_\_\_\_\_ 12/13/2010

**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 of Technology

College Major: *(if applicable)* Applied Industrial Technology

College Degree: *(if applicable)* AAS

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

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

Secondary Program Name: Engineering Tech

Secondary School Name: GlenOak High School

District Name: Plain Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>Year 1 1st Sem.</b>	Comp. Appl. For Tech. Prof. ECA122	RA CC	Intro to Algebra MTH101	RA	College Composition ENG124	RA TAG	Material Science MET123	RT	Blueprint Reading MST121	RT CT2	Engineering Technology Seminar ETD121	RT CC				
<b>Year 1 2nd Sem.</b>	AC Circuit Analysis EET122	RA CC	Trigonometry MTH128	RA CC	Hydraulic & Pneumatic Systems MST134	RT	Electrical Circuits & Devices EST130	RT	Industrial Management Concepts IET121	RT CT2						
<b>Year 2 1st Sem.</b>	Technical Report Writing ENG221	RA	Physics I PHY121	RA TAG CC	Effective Speaking COM121	RA TAG	Intro to Robotics IET228	RT	Manufacturing Processes MET225	RT CT2						
<b>Year 2 2nd Sem.</b>	Mechanical Drive Components MST221	RA	Arts/ Humanities/ Social Science Elective	RE	Technical Elective	RT										

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## 2011 - 2012 Program of Study - Postsecondary Semesters

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

Stark State College of Technology

College Major: *(if applicable)* Mechanical-Fuel Cell

College Degree: *(if applicable)* AAS

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

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

Secondary Program Name: Engineering Tech

Secondary School Name: GlenOak High School

District Name: Plain Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>Year 1 1st Sem.</b>	Engineering Technology Seminar ETD121	RA CC	Intro to Alternative Energy & Fuel Cells MET229	RT	Basic AutoCAD DET125	RT TAG CC CT2	General Chemistry I CHM141	RA	College Algebra MTH125	RA CC	Trigonometry MTH128	RA CC	College Composition ENG124	RA		
<b>Year 1 2nd Sem.</b>	Statics & Strength of Materials MET124	RT TAG	Analysis & Applications of Types of Fuel Cells MET230	RT	Pre-Calc MTH126	RA	Programming Logic & Problem Solving ECA127	RT	Physics I PHY121	RA TAG CC						
<b>Year 2 1st Sem.</b>	Effective Speaking COM121	RA TAG	Fluid Power MET222	RT TAG	Fuel Cell Systems MET231	RT	Advanced AutoCAD DET230	RT	Concepts of Calculus MTH221	RA						
<b>Year 2 2nd Sem.</b>	Electrical Circuits & Devices EST130	RT	Thermodynamics & Heat Transfer MET227	RT	Fuel Cell Project MET232	RT	Technical Report Writing ENG221	RA	Manufacturing Processes or Machine Tools MET225 or AIT122	RT TAG CC CT2	Arts/ Humanities/ Social Science Elective	RE				

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## 2011 - 2012 Program of Study - Postsecondary Semesters

Postsecondary Institution: Stark State College of Technology

College Major: (if applicable) Mechanical Engineering Tech College Degree: (if applicable) AAS

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

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

Secondary Program Name: Engineering Tech Secondary School Name: GlenOak High School District Name: Plain Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>Year 1 1st Sem.</b>	Engineering Technology Seminar ETD121	RA CC	Material Science MET123	RT	Engineering Drawing DET121	RT CC	College Composition ENG124	RA	College Algebra MTH125	RA CC	Trigonometry MTH128	RA CC	Comp. Appl. For Tech Prof ECA122	RA CC		
<b>Year 1 2nd Sem.</b>	Statics & Strength of Materials MET124	RT TAG	Manufacturing Processes or Machine Tools MET225 or AIT122	RT TAG CT2	Pre-Calc MTH126	RA	Basic AutoCAD DET125 or Pro Engineer DET131	RT TAG CC CT2	Physics I PHY121	RA TAG CC						
<b>Year 2 1st Sem.</b>	Effective Speaking COM121	RA TAG	Machine Design MET228	RT	Advanced Strength of Materials MET221	RT TAG	Fluid Power MET222	RT TAG	Concepts of Calculus MTH221 Analytical Geometry MTH223	RT TAG						
<b>Year 2 2nd Sem.</b>	Dynamics MET223	RT	Electrical Circuits & Devices EST130	RT	Thermodynamics & Heat Transfer MET227	RT	Technical Project-Mechanical & Design MET226	RT	Technical Report Writing ENG221	RA	Arts/ Humanities/ Social Science Elective	RE				

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## 2011 - 2012 Program of Study - Postsecondary Semesters

Postsecondary Institution: Stark State College of Technology

College Major: (if applicable) Electronic Engineering Technology College Degree: (if applicable) AAS

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

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

Secondary Program Name: Engineering Tech Secondary School Name: GlenOak High School District Name: Plain Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>Year 1 1st Sem.</b>	Programming Logic & Problem Solving ECA127	RT	DC Circuit Analysis EET120	RT TAG	Engineering Technology Seminar ETD121	RT CC	College Composition ENG124	RA	College Algebra MTH125	RA CC	Trigonometry MTH128	RA CC	Basic AutoCAD DET125	RT TAG CC		
<b>Year 1 2nd Sem.</b>	Electronic Devices & Circuits EET123	RT	Circuit Manufacturing Techniques EET125	RT	Visual Basic Programming ECA128	RT	Pre-Calc MTH126	RA	AC Circuit Analysis EET122	RT TAG	Physics I PHY121	RA TAG CC				
<b>Year 2 1st Sem.</b>	Pulse & Digital Integrated Circuits EET262	RT TAG	Optics EET129	RT	Working Interfacing EET248	RT TAG	Electronic Circuits I EET230	RT TAG	Concepts of Calculus MTH221	RA						
<b>Year 2 2nd Sem.</b>	Technical Report Writing ENG221	RA	Digital Communication & Systems Analysis EET225	RT	Industrial Electronics EET232	RT	Technical Project Electronic EET235	RT	Effective Speaking COM121	RA TAG	Arts/ Humanities/ Social Science Elective	RE				

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## 2011 - 2012 Program of Study - Postsecondary Semesters

Postsecondary Institution: Stark State College of Technology

College Major: (if applicable) Electric Power Utility Technology College Degree: (if applicable) AAS

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

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

Secondary Program Name: Engineering Tech Secondary School Name: GlenOak High School District Name: Plain Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>Year 1 1st Sem.</b>	Comp Appl. For Tech Prof ECA122	RT CC	College Composition ENG124	RA	Overhead Line Technology (EUT121) or Substation Technology I (EUT123)	RT										
<b>Year 1 2nd Sem.</b>	College Algebra MTH125	RA CC	Trigonometry MTH128	RA CC	DC Circuit Analysis EET120	RT TAG	Effective Speaking COM121	RA TAG	Overhead Line Technology II (EUT122) or Substation Technology III (EUT124)	RT						
<b>Summer</b>	Eng Tech Div- Independent study ETD202	RT														
<b>Year 2 1st Sem.</b>	Principles of Physics PHY101	RA	Basic Economics BUS122	RA	AC Circuit Analysis EET122	RT TAG	Business Law & Ethics ACC130	RA TAG	Overhead Line Technology III (EUT221) or Substation Technology II (EUT224)	RT						
<b>Year 2 2nd Sem.</b>	Transmission & Distribution EET226	RT	Technical Report Writing ENG221	RA	Industrial Management Concepts IET121	RT	Switchgear, Transformers & Controls EST129	RT:	Overhead Line Technology IV (EUT222) or Substation Technology VI (EUT225)	RT						

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RA  
Date Completed: \_\_\_\_\_

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## 2011 - 2012 Program of Study - Postsecondary Semesters

**Postsecondary Institution:** Stark State College of Technology  
**College Major: (if applicable)** Civil Engineering Technology      **College Degree: (if applicable)** \_\_\_\_\_  
**Specify Industry Credential Opportunities (if applicable):** \_\_\_\_\_  
**Certificate, Adult and/or Apprenticeship Program: (if applicable)** \_\_\_\_\_  
 Secondary Program Name: Engineering Tech      Secondary School Name: GlenOak High School      District Name: Plain Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>Year 1 1st Sem.</b>	College Composition ENG124	RA	College Algebra MTH125	RA CC	Trigonometry MTH128	RA CC	Building Materials & Construction Methods CET121	RT TAG	Architectural Drafting I CET122	RT	Engineering Technology Seminar ETD121	RT CC	Comp Appl. For Tech. Prof. ECA122	RA CC		
<b>Year 1 2nd Sem.</b>	Pre-Calc MTH126	RA	Statics & Strength of Materials MET124	RT TAG	Architectural Drafting II CET123	RT	Basic AutoCAD DET125	RT TAG CC CT2	Physics I PHY121	RA TAG CC						
<b>Year 2 1st Sem.</b>	Technical Report Writing ENG221	RA	Concepts of Calculus MTH221	RT	Surveying I CET227	RT	Structural Design I CET223	RT	Land Planning & Design CET232	RT	Construction Management, Job Cost & Safety CET235	RT				
<b>Year 2 2nd Sem.</b>	Effective Speaking COM121	RA TAG	Estimating CET226	RT	Site & Building Service Systems CET225	RT	Architectural Design CET233	RA	A/E CAD CET234	RT	Arts/ Humanities/ Social Science Elective	RE				

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## 2011 - 2012 Program of Study - Postsecondary Semesters

Postsecondary Institution: Stark State College of Technology

College Major: (if applicable) Electrical Maintenance Technology College Degree: (if applicable) AAS

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

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

Secondary Program Name: Engineering Tech Secondary School Name: GlenOak High School District Name: Plain Local Schools

	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code	Course	Code
<b>Year 1 1st Sem.</b>	DC Circuit Analysis EET120	RT TAG	Engineering Technology Seminar ETD121	RT CC	Hydraulic & Pneumatic Systems MST134	RT	Blueprint Reading MST121	RT	College Algebra MTH125	RA CC	Trigonometry MTH128	RA CC				
<b>Year 1 2nd Sem.</b>	Circuit Manufacturing Techniques EET125	RT	Electronic Devices & Circuits EET123	RT	Electrical Machines EET126	RT	Physics I PHY121	RA TAG CC	Comp. Appl. For Tech. Prof ECA122	RA CC	AC Circuit Analysis EET122	RT TAG				
<b>Year 2 1st Sem.</b>	NEC & Electrical Systems Design EET128	RT	PLC & Industrial Controls I EET227	RT	Mechanical Drive Components MST221	RT	Effective Speaking COM121	RA TAG	Switchgear, Transformer, & Controls EST129	RT	College Composition ENG124	RA				
<b>Year 2 2nd Sem.</b>	PLC & Industrial Controls II EET228	RT	Electrical/Electronic Troubleshooting EST221	RT	Technical Report Writing ENG221	RT	HVAC Principles I HVC121	RT	Technical Elective	RT	Arts/ Humanities/ Social Science Elective	RE				

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