

# Odessa Career & Technical Early College High School (OCTECHS)

## Dual Credit Matrix – Graduates of 2021 and Beyond

\*\*This matrix and its courses are applicable to ONLY students enrolled in OCTECHS. For information regarding admission into OCTECHS, contact Karl Miller, OCTECHS Principal, at 432.456.6409

## AUTOMOTIVE TECHNOLOGY

### 9<sup>th</sup> Grade

<b>Automotive Basics</b> Semester 1 6884 PEIMS #13039550	½ cr	<b>AUMT 1301:</b> Intro & Theory of Auto Tech	3 hrs
<b>PE Foundations of Personal Fitness</b> Semester 1 6794 PEIMS # PES00052	½ cr	<b>KINE 1106:</b> Jogging/Walking	1 hrs
<b>Automotive Basics</b> Semester 2 6894 PEIMS #13039550	½ cr	<b>AUMT 1407:</b> Automotive Electrical Systems	4 hrs
<b>PE Foundations of Personal Fitness</b> Semester 2 6795 PEIMS # PES00052	½ cr	<b>KINE 1164:</b> Intro to Physical Fitness/Sport	1 hrs

### 10<sup>th</sup> Grade

<b>Automotive Technology I</b> Semester 1 6895 PEIMS #13039600  6896 PEIMS #13039600	½ cr	<b>AUMT 1310:</b> Automotive Brake Systems • Prerequisite: AUMT 1301/1407 (70+)	3 hrs
	1 cr	<b>AUMT 2437:</b> Automotive Electronics • Prerequisite: AUMT 1301/1407 (70+)	4 hrs
<b>Automotive Technology II</b> Semester 2 6897 PEIMS #13039700  6898 PEIMS #13039700	1 cr	<b>AUMT 1419:</b> Automotive Engine Repair • Prerequisite: AUMT 1301/1407 (70+)	4 hrs
	1 cr	<b>AUMT 1416:</b> Automotive Suspension & Steering • Prerequisite: AUMT 1301/1407 (70+)	4 hrs

## AUTOMOTIVE TECHNOLOGY (cont.)

### 11<sup>th</sup> Grade

<b>Automotive Technology II</b> Semester 1 6899 PEIMS #13039710  6900 PEIMS #13039710	½ cr  ½ cr	<b>AUMT 1345:</b> Auto Climate Control Systems • Prerequisite: AUMT 2437 (70+) <b>AUMT 2317:</b> Auto Engine Performance Analysis I • Prerequisite: AUMT 2437/1419 (70+)	3 hrs  3 hrs
<b>U.S. History</b> Semester 1 2534 PEIMS #03340100	½ cr	<b>HIST 1301:</b> US History I • TSI: Reading • EOC: CANNOT BE TAKEN ONLINE	3 hrs
<b>U.S. History</b> Semester 1 2534 PEIMS #03340100	½ cr	<b>HIST 1302:</b> US History II • TSI: Reading • EOC: CANNOT BE TAKEN ONLINE	3 hrs
<b>Automotive Technology II</b> Semester 2 6901 PEIMS #13039710  6902 PEIMS #13039710	½ cr  ½ cr	<b>AUMT 2313:</b> Automotive Drive Train and Axles • Prerequisite: AUMT 1301/1407 (70+) <b>AUMT 2334:</b> Auto Engine Prfrmnce Analysis II • Prerequisite: AUMT 2317 (70+)	3 hrs  3 hrs
<b>Art Appreciation</b> Semester 2 4591 PEIMS #03500110	½ cr	<b>ARTS 1301:</b> Art Appreciation • TSI: NA	3 hrs
<b>Technical Writing</b> Semester 1 6790 PEIMS #03221100	½ cr	<b>ENGL 2311:</b> Technical & Business Writing • TSI: NA	3 hrs

### 12<sup>th</sup> Grade

<b>Automotive Technology II</b> Semester 1 6903 PEIMS #13039710	1 cr	<b>AUMT 2425:</b> Automotive Automatic Transmission & Transaxle • Prerequisite: AUMT 1419/2313 (70+)	4 hrs
<b>Independent Studies in Math</b> Semester 1 2491 PEIMS #03102500	½ cr	<b>MATH 1332:</b> Contemporary Mathematics • TSI: Math	3 hrs
<b>Practicum Automotive Technology</b> Semester 2 6867 PEIMS #13040470 6904 PEIMS #13040460	1½ cr 1 cr	<b>AUMT 2388:</b> Internship <b>AUMT 2443:</b> Adv. Emission Systems Diagnostics • Prerequisite: AUMT 2434 (70+)	3 hrs 4 hrs
<b>Economics</b> Semester 2 2536 PEIMS #03310300	½ cr	<b>ECON 2301:</b> Macroeconomics • TSI: Reading	3 hrs

## BUSINESS LEADERSHIP

### 9<sup>th</sup> Grade

<b>Business Leadership I</b> Semester 1 6705 PEIMS #13011400	½ cr	<b>BMGT 2309:</b> Leadership	3 hrs
<b>PE Foundations of Personal Fitness</b> Semester 1 6794 PEIMS #PES00052	½ cr	<b>KINE 1106:</b> Jogging/Walking	1 hr
<b>Internetworking Technologies I</b> Semester 2 8600 PEIMS #N1302803	½ cr	<b>ITSC 1301:</b> Introduction to Computers	3 hrs
<b>PE Foundations of Personal Fitness</b> Semester 2 6795 PEIMS #PES00052	½ cr	<b>KINE 1164:</b> Intro to Physical Fitness/Sport	1 hr

### 10<sup>th</sup> Grade

<b>Professional Communications (Speech)</b> Semester 1 6800 PEIMS #13009900	½ cr	<b>BMGT 1305:</b> Communications in Management	3 hrs
<b>Human Resource Management</b> Semester 1 6702 PEIMS #13011900	½ cr	<b>HRPO 1311:</b> Human Relations	3 hrs
<b>Business Leadership II</b> Semester 2 6708 PEIMS #13011500 6704 PEIMS #13011500	½ cr ½ cr	<b>ACNT 1311:</b> Intro to Computerized Accounting <b>BMGT 1341:</b> Business Ethics	3 hrs 3 hrs

## BUSINESS LEADERSHIP (cont.)

### 11<sup>th</sup> Grade

<b>Practicum Business Leadership</b> Semester 1 6701 PEIMS #13012200 6706 PEIMS #13012200	 ½ cr ½ cr	 <b>BMGT 1301:</b> Supervision <b>BMGT 2303:</b> Problem Solving & Decision Making	 3 hrs 3 hrs
<b>Practicum Business Leadership</b> Semester 2 6707 PEIMS #13012200 6703 PEIMS #13012200	 ½ cr ½ cr	 <b>BMGT 2310:</b> Financial Management <b>HRPO 2301:</b> Human Resource Management	 3 hrs 3 hrs
<b>Art Appreciation</b> Semester 2 4591 PEIMS #03500110	 ½ cr	<b>ARTS 1301:</b> Art Appreciation <ul style="list-style-type: none"> <li>• TSI: NA</li> </ul>	 3 hrs
<b>Music Appreciation</b> Semester 2 4653 PEIMS #03155600	 ½ cr	<b>MUSI 1306:</b> Music Appreciation <ul style="list-style-type: none"> <li>• TSI: NA</li> </ul>	 3 hrs

### 12<sup>th</sup> Grade

<b>Extended Practicum Business Leadership</b> Semester 1 6710 PEIMS #13012205 6712 PEIMS #13012205 8414 PEIMS #13012205 6865 PEIMS #13012205	 ½ cr ½ cr ½ cr ½ cr	 <b>BMGT 1344:</b> Negotiation & Conflict Mgmt <b>MRKG 1311:</b> Principles of Marketing <b>BMGT 1327:</b> Principles of Management <b>BMGT 2311:</b> Change Management	 3 hrs 3 hrs 3 hrs 3 hrs
<b>Technical Writing</b> Semester 1 6790 PEIMS #03221100	 ½ cr	<b>ENGL 2311:</b> Technical & Business Writing <ul style="list-style-type: none"> <li>• TSI: NA</li> </ul>	 3 hrs
<b>Independent Studies in Math</b> Semester 1 2491 PEIMS #03102500	 ½ cr	<b>MATH 1332:</b> Contemporary Math <ul style="list-style-type: none"> <li>• TSI: Math</li> </ul>	 3 hrs
<b>Extended Practicum Business Leadership</b> Semester 2 6711 PEIMS #13012210	 1½ cr	<b>BMGT 2388:</b> Internship	 3 hrs
<b>Economics</b> Semester 2 2536 PEIMS #03310300	 ½ cr	<b>ECON 2301:</b> Principles of Macroeconomics <ul style="list-style-type: none"> <li>• TSI: Reading</li> </ul>	 3 hrs
<b>US Government</b> Semester 2 2025 PEIMS #03330100	 ½ cr	<b>GOVT 2305:</b> Federal Government <ul style="list-style-type: none"> <li>• TSI: Reading</li> </ul>	 3 hrs

## CRIMINAL JUSTICE

### 9<sup>th</sup> Grade

<b>Principles of Criminal Justice</b> Semester 1 6713 PEIMS #13029200	½ cr	<b>CRIJ 1301:</b> Introduction to Criminal Justice	3 hrs
<b>PE Foundations of Personal Fitness</b> Semester 1 6794 PEIMS #PES00052	½ cr	<b>KINE 1106:</b> Jogging/Walking	1 hrs
<b>Principles of Criminal Justice</b> Semester 1 6725 PEIMS #13029200	½ cr	<b>CRIJ 2328:</b> Police Systems and Practices • Prerequisite: CRIJ 1301 (70+)	3 hrs
<b>PE Foundations of Personal Fitness</b> Semester 2 6795 PEIMS #PES00052	½ cr	<b>KINE 1164:</b> Intro to Physical Fitness/Sport	1 hrs

### 10<sup>th</sup> Grade

<b>Court Systems and Practices</b> Semester 1 6714 PEIMS #13029600	½ cr	<b>CRIJ 1306:</b> Court Systems and Practices • Prerequisite: CRIJ 1301 (70+)	3 hrs
6720 PEIMS #13029600	½ cr	<b>CRIJ 2313:</b> Correctional Systems & Practices • Prerequisite: CRIJ 1301 (70+)	3 hrs
<b>Criminal Justice I</b> Semester 2 6719 PEIMS #13029300 6717 PEIMS #13029300	½ cr ½ cr	<b>CRIJ 1310:</b> Fundamentals of Criminal Law <b>CRIJ 1313:</b> Juvenile Justice System	3 hrs 3 hrs

## CRIMINAL JUSTICE (cont.)

### 11<sup>th</sup> Grade

<b>Criminal Justice II</b> Semester 1 6716 PEIMS #13029400 6721 PEIMS #13029400	 ½ cr ½ cr	 <b>CJCR 1304:</b> Probation and Parole <b>CJLE 1327:</b> Interviewing & Report Writing CJ	 3 hrs 3 hrs
<b>English III</b> Semester 1 6798 PEIMS #03220300	½ cr	<b>ENGL 1301:</b> Composition I <ul style="list-style-type: none"> <li>• TSI: Writing</li> </ul>	3 hrs
<b>English III</b> Semester 1 6799 PEIMS #03220300	½ cr	<b>ENGL 1302:</b> Composition II <ul style="list-style-type: none"> <li>• Prerequisite: ENGL 1301 (70+)</li> </ul>	3 hrs
<b>Princip-Law Public Safety, Corrections, Security</b> Semester 2 8715 PEIMS #13029200	½ cr	<b>SOCI 2336:</b> Criminology <ul style="list-style-type: none"> <li>• TSI: NA</li> </ul>	3 hrs
<b>Criminal Investigation</b> Semester 2 6723 PEIMS #13029550 6722 PEIMS #13029550	 ½ cr ½ cr	 <b>CJLE 1346:</b> Human Trafficking <b>CRIJ 2314:</b> Criminal Investigation	 3 hrs 3 hrs
<b>Art Appreciation</b> Semester 2 4591 PEIMS #03500110	½ cr	<b>ARTS 1301:</b> Art Appreciation <ul style="list-style-type: none"> <li>• TSI: NA</li> </ul>	3 hrs

### 12<sup>th</sup> Grade

<b>Extended Practicum Criminal Justice</b> Semester 1 6724 PEIMS #13030110 6726 PEIMS #13030110	 ½ cr ½ cr	 <b>HMSY 1337:</b> Intro to Homeland Security <b>CJSA 1330:</b> Cybercrimes	 3 hrs 3 hrs
<b>Technical Writing</b> Semester 1 6790 PEIMS #03221100	½ cr	<b>ENGL 2311:</b> Technical & Business Writing <ul style="list-style-type: none"> <li>• TSI: NA</li> </ul>	3 hrs
<b>US Government</b> Semester 1 2025 PEIMS #03330100	½ cr	<b>GOVT 2305:</b> Federal Government <ul style="list-style-type: none"> <li>• TSI: Reading</li> </ul>	3 hrs
<b>Extended Practicum Criminal Justice</b> Semester 2 6718 PEIMS #13030115 6891 PEIMS #13030115	 ½ cr ½ cr	 <b>CJSA 1348:</b> Ethics in Criminal Justice <b>CJSA 2334:</b> Contemporary Issues in CJ	 3 hrs 3 hrs
<b>Independent Studies in Math</b> Semester 2 2491 PEIMS #03102500	½ cr	<b>MATH 1332:</b> Contemporary Math <ul style="list-style-type: none"> <li>• TSI: Math</li> </ul>	3 hrs

## CULINARY ARTS

### 9<sup>th</sup> Grade

<b>Culinary Arts I</b> Semester 1 6728 PEIMS #13022600 6729 PEIMS #13022600	 ½ cr ½ cr	 <b>CHEF 1305:</b> Sanitation and Safety <b>CHEF 1301:</b> Basic Food Prep	 3 hrs 3 hrs
<b>PE Foundations of Personal Fitness</b> Semester 1 6794 PEIMS #PES00052	½ cr	<b>KINE 1106:</b> Jogging/Walking	1 hrs
<b>PE Foundations of Personal Fitness</b> Semester 1 6795 PEIMS #PES00052	½ cr	<b>KINE 1164:</b> Intro to Physical Fitness/Sport	1 hrs
<b>Culinary Arts I</b> Semester 2 6730 PEIMS #13022600 6731 PEIMS #13022600	 ½ cr ½ cr	 <b>PSTR 1301:</b> Fundamentals of Baking <b>IFWA 1318:</b> Nutrition Food Service Profession	 3 hrs 3 hrs

### 10<sup>th</sup> Grade

<b>Advanced Culinary Arts</b> Semester 1 6735 PEIMS #13022650 6733 PEIMS #13022650	 ½ cr ½ cr	 <b>CHEF 2301:</b> Intermediate Food Prep <ul style="list-style-type: none"> <li>• Prerequisite: CHEF 1301/1305 (70+)</li> </ul> <b>RSTO 1321:</b> Menu Management	 3 hrs 3 hrs
<b>Music Appreciation</b> Semester 1 4653 PEIMS #03155600	½ cr	<b>MUSI 1306:</b> Music Appreciation <ul style="list-style-type: none"> <li>• TSI: NA</li> </ul>	3 hrs
<b>Advanced Culinary Arts</b> Semester 2 6732 PEIMS #13022650 6734 PEIMS #13022650	 ½ cr ½ cr	 <b>CHEF 1310:</b> Garde Manger <ul style="list-style-type: none"> <li>• Prerequisite: CHEF 1301 (70+)</li> </ul> <b>RSTO 1325:</b> Purchasing for Hospitality	 3 hrs 3 hrs
<b>Art Appreciation</b> Semester 2 4591 PEIMS #03500110	½ cr	<b>ARTS 1301:</b> Art Appreciation <ul style="list-style-type: none"> <li>• TSI: NA</li> </ul>	3 hrs

## CULINARY ARTS (cont.)

### 11<sup>th</sup> Grade

<b>Extended Practicum Culinary Arts I</b> Semester 1 6736 PEIMS #13022705 6737 PEIMS #13022705	½ cr ½ cr	<b>CHEF 1340:</b> Meat Preparation and Cooking <ul style="list-style-type: none"> <li>Prerequisite: CHEF 1301/2301 (70+)</li> </ul> <b>RSTO 1313:</b> Hospitality Supervision	3 hrs 3 hrs
<b>Professional Communications (Speech)</b> Semester 1 6800 PEIMS #13009900	½ cr	<b>SPCH 1321:</b> Business & Professional Speech <ul style="list-style-type: none"> <li>TSI: NA</li> </ul>	3 hrs
<b>Extended Practicum Culinary Arts I</b> Semester 2 6739 PEIMS #13022705 6738 PEIMS #13022705	½ cr 1 cr	<b>CHEF 2331:</b> Advanced Food Prep <ul style="list-style-type: none"> <li>Prerequisite: CHEF 2301 (70+)</li> </ul> <b>PSTR 2331:</b> Advanced Pastry Shop <ul style="list-style-type: none"> <li>Prerequisite: PSTR 1301 (70+)</li> </ul>	3 hrs 3 hrs
<b>English III</b> Semester 2 6798 PEIMS #03220300	½ cr	<b>ENGL 1301:</b> Composition I <ul style="list-style-type: none"> <li>TSI: Writing</li> </ul>	3 hrs
<b>English III</b> Semester 2 6799 PEIMS #03220300	½ cr	<b>ENGL 1302:</b> Composition II <ul style="list-style-type: none"> <li>Prerequisite: ENGL 1301 (70+)</li> </ul>	3 hrs

### 12<sup>th</sup> Grade

<b>Extended Practicum Culinary Arts II</b> Semester 1 6741 PEIMS #13022715 6740 PEIMS #13022715	1 cr ½ cr	<b>RSTO 1304:</b> Dining Room Service <b>CHEF 1314:</b> A La Carte Cooking <ul style="list-style-type: none"> <li>Prerequisite: CHEF 2331 (70+)</li> </ul>	3 hrs 3 hrs
<b>Independent Studies in Math</b> Semester 1 2491 PEIMS #03102500	½ cr	<b>MATH 1332:</b> Contemporary Math <ul style="list-style-type: none"> <li>TSI: Math</li> </ul>	3 hrs
<b>Extended Practicum Culinary Arts II</b> Semester 2 6742 PEIMS #13022715	1½ cr	<b>RSTO 2386:</b> Internship <ul style="list-style-type: none"> <li>Prerequisite: CHEF 1314/2331 (70+)</li> </ul>	3 hrs
<b>Economics</b> Semester 2 2536 PEIMS #03310300	½ cr	<b>ECON 2301:</b> Principles of Macroeconomics <ul style="list-style-type: none"> <li>TSI: Reading</li> </ul>	3 hrs



## DIESEL TECHNOLOGY

### 9<sup>TH</sup> Grade

<b>Automotive Basics</b> Semester 1 6884 PEIMS #13039550	½ cr	<b>AUMT 1301:</b> Intro & Theory of Auto Tech	3 hrs
<b>PE Foundations of Personal Fitness</b> Semester 1 6794 PEIMS # PES00052	½ cr	<b>KINE 1106:</b> Jogging/Walking	1 hrs
<b>Automotive Basics</b> Semester 2 6894 PEIMS #13039550	½ cr	<b>AUMT 1407:</b> Automotive Electrical Systems	4 hrs
<b>PE Foundations of Personal Fitness</b> Semester 2 6795 PEIMS # PES00052	½ cr	<b>KINE 1164:</b> Intro to Physical Fitness/Sport	1 hrs

### 10<sup>TH</sup> Grade

<b>Automotive Technology I</b> Semester 1 6895 PEIMS #13039600	½ cr	<b>AUMT 1310:</b> Automotive Brake Systems • Prerequisite: AUMT 1301/1407 (70+)	3 hrs
<b>Diesel Technology I</b> Semester 1 6905 PEIMS 13040150	1 cr	<b>DEMR 2432:</b> Electronic Controls • Prerequisite: AUMT 1301/1407 (70+)	4 hrs
<b>Diesel Technology I</b> Semester 2 6906 PEIMS #13040150	½ cr	<b>DEMR 2331:</b> Advanced Brake Systems • Prerequisite: DEMR 2432/AUMT 1310 (70+)	3 hrs
6907 PEIMS #13040150	½ cr	<b>DEMT 1240:</b> Steering & Suspension II • Prerequisite: AUMT 1301/1407 (70+)	2 hrs

## DIESEL TECHNOLOGY (cont.)

### 11<sup>th</sup> Grade

<b>Diesel Technology II</b> Semester 1 6908 PEIMS #13040160	1 cr	<b>DEMR 1406:</b> Diesel Engine I • Prerequisite: DEMR 2432 (70+)	4 hrs
6909 PEIMS #13040160	1 cr	<b>DEMR 2435:</b> Advanced Hydraulics • Prerequisite: DEMR 2432/AUMT 1310 (70+)	4 hrs
<b>U.S. History</b> Semester 1 2534 PEIMS #03340100	½ cr	<b>HIST 1301:</b> US History I • TSI: Reading • EOC: CANNOT BE TAKEN ONLINE	3 hrs
<b>U.S. History</b> Semester 1 2534 PEIMS #03340100	½ cr	<b>HIST 1302:</b> US History II • TSI: Reading • EOC: CANNOT BE TAKEN ONLINE	3 hrs
<b>Automotive Technology II</b> Semester 2 6899 PEIMS #13039710	½ cr	<b>AUMT 1345:</b> Auto Climate Control Systems • Prerequisite: DEMR 2432 (70+)	3 hrs
<b>Diesel Technology II</b> Semester 2 6910 PEIMS #13040170	½ cr	<b>DEMR 2338:</b> Advanced Power Applications I • Prerequisite: DEMR 2432 (70+)	3 hrs
<b>Art Appreciation</b> Semester 2 4591 PEIMS #03500110	½ cr	<b>ARTS 1301:</b> Art Appreciation • TSI: NA	3 hrs
<b>Technical Writing</b> Semester 1 6790 PEIMS #03221100	½ cr	<b>ENGL 2311:</b> Technical & Business Writing • TSI: NA	3 hrs

### 12<sup>th</sup> Grade

<b>Diesel Technology II</b> Semester 1 6911 PEIMS #13040170	1 cr	<b>DEMR 2434:</b> Advanced Diesel Tune-up and Troubleshooting I	4 hrs
<b>Independent Studies in Math</b> Semester 1 2491 PEIMS #03102500	½ cr	<b>MATH 1332:</b> Contemporary Mathematics • TSI: Math	3 hrs
<b>Practicum Diesel Technology</b> Semester 2 6913 PEIMS #13040455 6912 PEIMS #13040450	1½ cr 1 cr	<b>DEMT 2489:</b> Internship <b>DEMR 2440:</b> Advanced Power Applications II • Prerequisite: DEMR 2432/2338 (70+)	4 hrs 4 hrs
<b>Economics</b> Semester 2 2536 PEIMS #03310300	½ cr	<b>ECON 2301:</b> Macroeconomics • TSI: Reading	3 hrs

## INSTRUMENTATION & ELECTRONICS TECHNOLOGY (Energy Tech)

### 9th Grade

<b>Robotics</b> Semester 1 8699 PEIMS #13037000	½ cr	<b>RBTC 1343:</b> Robotics	3 hrs
<b>PE Foundations of Personal Fitness</b> Semester 1 6794 PEIMS #PES00052	½ cr	<b>KINE 1106:</b> Jogging/Walking	1 hr
<b>PE Foundations of Personal Fitness</b> Semester 1 6795 PEIMS #PES00052	½ cr	<b>KINE 1164:</b> Intro to Physical Fitness/Sport	1 hr
<b>AC/DC Theory</b> Semester 2 8598 PEIMS #13036800	1 cr	<b>CETT 1509:</b> DC-AC Circuits	5 hrs

### 10th Grade

<b>AC/DC Electronics</b> Semester 1 6743 PEIMS #13036800	1 cr	<b>EEIR 1309:</b> National Electrical Code	3 hrs
<b>Solid State Electronics</b> Semester 2 6744 PEIMS #13036900	1 cr	<b>ELPT 1355:</b> Electronic Applications	3 hrs

### 11th Grade

<b>Extended Practicum STEM 1</b> Semester 1 6749 PEIMS #13017405 6746 PEIMS #13037405	½ cr ½ cr	<b>PTAC 1332:</b> Process Instrumentation I <b>ELMT 2333:</b> Industrial Electronics	3 hrs 3 hrs
<b>Digital Electronics</b> Semester 1 6745 PEIMS #13037600	1 cr	<b>IEIR 1310:</b> Motor Controls	3 hrs
<b>BIM I</b> Semester 1 8643 PEIMS #13011400	½ cr	<b>BCIS 1305:</b> Business Computer Applications	3 hrs
<b>Extended Practicum STEM 1</b> Semester 2 6747 PEIMS #13037405 6751 PEIMS #13037415	1 cr ½ cr	<b>ELPT 2319:</b> Program Logic Controllers I • Prerequisite: IEIR 1310 (70+) <b>PTAC 2336:</b> Process Instrumentation II • Prerequisite: PTAC 1332 (70+)	3 hrs 3 hrs
<b>Economics</b> Semester 2 2536 PEIMS #03310300	½ cr	<b>ECON 2301:</b> Principles of Macroeconomics • TSI: Reading	3 hrs
<b>Art Appreciation</b> Semester 2 4591 PEIMS #03500110	½ cr	<b>ARTS 1301:</b> Art Appreciation • TSI: NA	3 hrs

## ENERGY TECH (cont.)

### 12th Grade

<b>Extended Practicum STEM 2</b> Semester 1 6753 PEIMS #13037415  6892 PEIMS #13037050  6750 PEIMS #13037415	½ cr  1 ½ cr  1 cr	<b>INMT 1417: Industrial Automation</b> <ul style="list-style-type: none"> <li>Prerequisite: ELMT 2339 &amp; ELPT 2319 (70+)</li> </ul> <b>RBTC 1345: Robot Interfacing</b> <ul style="list-style-type: none"> <li>Prerequisite: RBTC 1343 (70+)</li> </ul> <b>INTC 1356: Instrumentation Calibration</b> <ul style="list-style-type: none"> <li>Prerequisite: PTAC 2336 (70+)</li> </ul>	4 hrs  3 hrs  3 hrs
<b>Technical Writing</b> Semester 1 6790 PEIMS #03221100	½ cr	<b>ENGL 2311: Technical &amp; Business Writing</b> <ul style="list-style-type: none"> <li>TSI: NA</li> </ul>	3 hrs
<b>Extended Practicum STEM 2</b> Semester 2 6752 PEIMS #13037415  6748 PEIMS #13037405	1 cr  1 cr	<b>CETT 1391: Spcl Tpcs in Computer Engineering</b> <ul style="list-style-type: none"> <li>Prerequisite: CETT 1509 &amp; ELPT 1355 (70+)</li> </ul> <b>ELMT 2339: Adv. Programmable Logic Controllers</b> <ul style="list-style-type: none"> <li>Prerequisite: ELPT 2319 (70+)</li> </ul>	3 hrs  3 hrs
<b>Precalculus "D" I</b> Semester 2 6788 PEIMS #03101100	½ cr	<b>MATH 1314: College Algebra</b> <ul style="list-style-type: none"> <li>TSI: Math</li> </ul>	3 hrs
<b>*Precalculus "D" II</b> Semester 2 6789 PEIMS #03101100	½ cr	<b>MATH 2412: Precalculus</b> <ul style="list-style-type: none"> <li>Prerequisite: MATH 1314 (70+)</li> </ul>	4 hrs

## OCCUPATIONAL SAFETY & ENVIRONMENTAL TECHNOLOGY (OSET)

### 9<sup>th</sup> Grade

<b>OSET I</b> Semester 1 6754 PEIMS #N1303680	½ cr	<b>OSHT 1301:</b> Intro to Safety & Health	1 hr
<b>PE Foundations of Personal Fitness</b> Semester 1 6794 PEIMS #PES00052	½ cr	<b>KINE 1164:</b> Intro to Fitness & Wellness	1 hr
<b>OSET I</b> Semester 2 6756 PEIMS #13001100	½ cr	<b>OSHT 1309:</b> Physical Hazards Control <ul style="list-style-type: none"> <li>• TSI: Reading</li> </ul>	3 hrs
<b>PE Foundations of Personal Fitness</b> Semester 2 6795 PEIMS #PES00052	½ cr	<b>KINE 1106:</b> Jogging and Walking	1 hr

### 10<sup>th</sup> Grade

<b>OSET II</b> Semester 1 6757 PEIMS #13001100 6758 PEIMS #N1303681	½ cr ½ cr	<b>OSHT 1320:</b> Energy Industrial Safety <b>OSHT 1316:</b> Material Handling	3 hrs 3 hrs
<b>OSET II</b> Semester 2 6755 PEIMS #N1303680 6759 PEIMS #N1303681	½ cr ½ cr	<b>OSHT 1313:</b> Accident Prevention, Inspection <b>OSHT 2401:</b> OSHA Regulation - General Industry <ul style="list-style-type: none"> <li>• Prerequisite: OSHT 1301/1309/1316/1320/1313 (70+)</li> </ul>	3 hrs 3 hrs

## OSET (cont.)

### 11<sup>th</sup> Grade

<b>OSET III</b> Semester 1 6760 PEIMS #03020000  6761 PEIMS #03020000	½ cr  ½ cr	<b>EPCT 2300:</b> DOT Regulations <ul style="list-style-type: none"> <li>Prerequisite: OSHT 1301/1309/1316/1320/1313 (70+)</li> </ul> <b>EPCT 1349:</b> Environmental Regulations <ul style="list-style-type: none"> <li>Prerequisite: OSHT 1301/1309/1316/1320/1313 (70+)</li> </ul>	3 hrs  3 hrs
<b>OSET III</b> Semester 2 6762 PEIMS #N1303682  6763 PEIMS #N1303682	½ cr  ½ cr	<b>OSHT 2305:</b> Ergnemics & Human Factors in Safety <ul style="list-style-type: none"> <li>Prerequisite: OSHT 2401 (70+)</li> </ul> <b>OSHT 2309:</b> Safety Program Management <ul style="list-style-type: none"> <li>Prerequisite: OSHT 2401 (70+)</li> </ul>	3 hrs  3 hrs
<b>Art Appreciation</b> Semester 2 4591 PEIMS #03500110	½ cr	<b>ARTS 1301:</b> Art Appreciation <ul style="list-style-type: none"> <li>TSI: NA</li> </ul>	3 hrs
<b>Scientific Research and Design I</b> Semester 2 8583 PEIMS #13037200	½ cr	<b>BIOL 1408:</b> Biology for Non-Science Majors <ul style="list-style-type: none"> <li>TSI: Math/Reading</li> </ul>	4 hrs

### 12<sup>th</sup> Grade

<b>Extended Practicum OSET I</b> Semester 1 6766 PEIMS #13033005  6765 PEIMS #N1303682	½ cr  ½ cr	<b>OSHT 2337:</b> Advanced Risk Management <ul style="list-style-type: none"> <li>Prerequisite: OSHT 2401 (70+)</li> </ul> <b>EPCT 1344:</b> Environmental Sampling <ul style="list-style-type: none"> <li>Prerequisite: OSHT 2401 (70+)</li> </ul>	3 hrs  3 hrs
<b>Technical Writing</b> Semester 1 6790 PEIMS #03221100	½ cr	<b>ENGL 2311:</b> Technical & Business Writing <ul style="list-style-type: none"> <li>TSI: NA</li> </ul>	3 hrs
<b>Independent Studies in Math</b> Semester 1 2491 PEIMS #03102500	½ cr	<b>MATH 1332:</b> Contemporary Mathematics <ul style="list-style-type: none"> <li>TSI: Math</li> </ul>	3 hrs
<b>Extended Practicum OSET I</b> Semester 2 6767 PEIMS #13033005  6768 PEIMS #13033005	½ cr  ½ cr	<b>EPCT 2331:</b> Industrial Hygiene Applications <ul style="list-style-type: none"> <li>Prerequisite: OSHT 2401 (70+)</li> </ul> <b>OSHT 2488:</b> Internship	3 hrs  3 hrs
<b>Economics</b> Semester 2 2536 PEIMS #03310300	½ cr	<b>ECON 2301:</b> Principles of Macroeconomics <ul style="list-style-type: none"> <li>TSI: Reading</li> </ul>	3 hrs

## WELDING TECHNOLOGY

### 9<sup>th</sup> Grade

<b>Welding I</b> Semester 1 6774 PEIMS # 13032300	1 cr	<b>WLDG 1421:</b> Welding Fundamentals	4 hrs
<b>PE Foundations of Personal Fitness</b> Semester 1 6794 PEIMS #PES00052	½ cr	<b>KINE 1164:</b> Intro to Fitness & Wellness	1 hr
<b>PE Foundations of Personal Fitness</b> Semester 2 6795 PEIMS #PES00052	½ cr	<b>KINE 1106:</b> Jogging and Walking	1 hr
<b>Welding I</b> Semester 2 8660 PEIMS # 13032300	1 cr	<b>WLDG 1417:</b> Intro to Layout & Fabrication <ul style="list-style-type: none"> <li>Prerequisite: WLDG 1421 (70+)</li> </ul>	4 hrs

### 10<sup>th</sup> Grade

<b>Welding II</b> Semester 1 8661 PEIMS # 13032400	1 cr	<b>WLDG 1430:</b> Intro to GMAW <ul style="list-style-type: none"> <li>Prerequisite: WLDG 1421 (70+)</li> </ul>	4 hrs
<b>Welding II</b> Semester 2 8661 PEIMS # 13032400	1 cr	<b>WLDG 1434:</b> Intro to GTAW <ul style="list-style-type: none"> <li>Prerequisite: WLDG 1421 (70+)</li> </ul>	4 hrs
<b>Music Appreciation</b> Semester 2 4653 PEIMS #03155600	½ cr	<b>MUSI 1306:</b> Music Appreciation <ul style="list-style-type: none"> <li>TSI: NA</li> </ul>	3 hrs
<b>Art Appreciation</b> Semester 2 4591 PEIMS #03500110	½ cr	<b>ARTS 1301:</b> Art Appreciation <ul style="list-style-type: none"> <li>TSI: NA</li> </ul>	3 hrs

## WELDING (cont.)

### 11<sup>th</sup> Grade

<b>Extended Practicum Welding I</b> Semester 1 6775 PEIMS # 13033005	1 cr	<b>WLDG 1435:</b> Intro to Pipe Welding <ul style="list-style-type: none"> <li>Prerequisite: WLDG 1421 (70+)</li> </ul>	4 hrs
<b>Supervision</b> Semester 1 6701 PEIMS #13012100	½ cr	<b>BMGT 1301:</b> Supervision	3 hrs
<b>Professional Communications (Speech)</b> Semester 1 6800 PEIMS # 13009900	½ cr	<b>SPCH 1321:</b> Business Professional Speech <ul style="list-style-type: none"> <li>TSI: NA</li> </ul>	3 hrs
<b>Extended Practicum Welding I</b> Semester 2 6776 PEIMS # 13033005 6777 PEIMS # 13033005	1 cr 1 cr	<b>MCHN 1438:</b> Basic Machine Shop I <b>WLDG 2413:</b> Intermed Wldng Use Multi Process <ul style="list-style-type: none"> <li>Prerequisite: WLDG 1421/1430/1434 (70+)</li> </ul>	4 hrs 4 hrs

### 12<sup>th</sup> Grade

<b>Extended Practicum Welding II</b> Semester 1 6780 PEIMS # 13033015	1 cr	<b>WLDG 1337:</b> Intro to Metallurgy <ul style="list-style-type: none"> <li>Prerequisite: WLDG 1421 (70+)</li> </ul>	3 hrs
6778 PEIMS # 13033015	1 cr	<b>WLDG 2451:</b> Advanced GTAW <ul style="list-style-type: none"> <li>Prerequisite: WLDG 1421/1434 (70+)</li> </ul>	4 hrs
<b>Independent Studies in Math</b> Semester 1 2491 PEIMS #03102500	½ cr	<b>MATH 1332:</b> Contemporary Mathematics <ul style="list-style-type: none"> <li>TSI: Math</li> </ul>	3 hrs
<b>Economics</b> Semester 1 2536 PEIMS #03310300	½ cr	<b>ECON 2301:</b> Principles of Macroeconomics <ul style="list-style-type: none"> <li>TSI: Reading</li> </ul>	3 hrs
<b>Extended Practicum Welding II</b> Semester 2 6779 PEIMS #13033015 6781 PEIMS #13033010	1 cr 1½ cr	<b>WLDG 2435:</b> Advanced Layout & Fabrication <b>WLDG 2388:</b> Internship <u>OR</u>	4 hrs 3 hrs
<b>Manufacturing Engineering Tech I</b> 6893 PEIMS #13032900	1 cr	<b>WLDG 2332:</b> Welding Automation <ul style="list-style-type: none"> <li>Prerequisite: WLDG 1421/1430 (70+)</li> </ul>	3 hrs