

**TOPS University Associate of Applied Science: Process Technology**

Postsecondary Partner: [Nunez Community College](#)

**Overview**

The Process Technology (PTEC Concentration) program prepares graduates to work as process technicians in refineries, chemical plants and related industries. Students will demonstrate an understanding of the safety, health and environmental policy. They will apply safe work practices. Students will demonstrate an understanding of the maintenance and operation of process equipment. They will apply the reasoning behind proper equipment line up, safety and process concerns while operating process equipment. Students will demonstrate an understanding of the technical aspects of the process technology and apply skills and knowledge systems and troubleshooting abilities.

**Capstone Credentials**

Regional (emerging)	Basic	Advanced	Fast Forward Advanced Plus
-Not applicable	-Certificate of Technical Studies: Process Technology Support Technician	-Technical Diploma: Process Technology	-Associate of Applied Science: Process Technology

*\*Core Academic Course*

*\*\*Jump Start CTE Course*

Grade 9	
Semester 1	Semester 2
LDOE Course/Code	LDOE Course/Code
*English I 120331	*English II 120332
*Algebra I 160321	*Geometry 160323
*Civics 220501/220504	*Core Academic Art
*Physical Education I 190105	*½ Physical Education II 190106 ½ Health Education 190500

Grade 10	
Semester 1	Semester 2
LDOE Course/Code	LDOE Course/Code
*English III 120333	*Algebra II 160322
*Biology 150301	*U.S. History 220403
*World History 220401	*Environmental Science 150310 or Biology II 150302
*Foreign Language I	*Foreign Language II

*Additional and/or equivalent TOPS core aligned courses can be found in Bulletin 741.*

Grade 11			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*English Comp I ENGL 1010	*English IV: DE - CENL 1013 English Composition I 120606	*College Algebra MATH 1300	*Algebra III: DE - CMAT 1213 College Algebra 160500
**Survey of Microcomputer Apps BUSN 1150	**DE Business Computer Applications 040400	**Process Instrumentation /Lab PTEC 1330/1331	**DE Process Instrumentation I 110915
**Intro to Ptec PTEC 1010	**DE Process Technician I 110911	**Quality Controls INDT 2070	**DE Quality Controls 313727
**Industrial and Plant Safety INDT 1030	**DE Industrial and Plant Safety 311921	**Process Equipment/Lab PTEC 1630/1631	**DE Process Technology I: Equipment 110922



Grade 12			
Semester 1		Semester 2	
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code
*Chemistry/Lab CHEM 1100/1110	*Chemistry I: DE - CCEM 1103 Chemistry I 150414	**Job Readiness Skills INDT 2900	**DE Career Success Skills 080407
*Microeconomics ECON 2000	* Economics DE: CECN 2223 Microeconomics 220609	Physics/Lab PHYS 1100/1110	*Physics I: DE - CPHY 2114 Physics I (Lec & Lab) 150727
**Business Communication BUSN 2400	**DE Business Communications 040305	**Process Troubleshooting PTEC 2440	**DE Process Instrumentation II 110916
**Process Systems/Lab PTEC 2420/2421	**DE Process Technology II: Unit Systems 110923	**Ptec Internship PTEC 2910	**DE CDF-Qualifying CTE Internship I 080198
**Process Operations/Lab PTEC 2430/2431	**DE Process Technology III: Operations 110924	**Fluid Mechanics PTEC 2630	**DE Fluid Mechanics 110331

*This pathway framework is an outline of how the approved courses can be implemented. Schools may opt to rearrange the order of course sequencing in order to meet local scheduling requirements. Additionally, Fast Forward pathways are dynamic and the Jump Start Review panel will consider course equivalents on an as needed basis.*