



**COLLEGE, CAREER *and*
MILITARY READINESS**
SAN ANTONIO INDEPENDENT SCHOOL DISTRICT



Highlands Program of Study

* Indicates recommended certification level

Business & Industry Endorsement					
Robotics and Automation Technology <i>*P-TECH Early College Programs - Application Required</i>					
Level	Course #	Course Title	Pre-Req	Grade	Credit
Level 2	7837	Robotics I	None	9	1.0
Level 1	7801 D3	Principles of Manufacturing DC	None	10	1.0
NA	7807D3	Basic Fluid Power DC	None	10	1.0
NA	7834D3	Solid State Electronics DC	None	11	1.0
Level 2	7805D1	Manufacturing Engineering Technology I DC	None	11	1.0
Level 4	7806D	Practicum in Manufacturing DC	None	12	2.0
Level 4	7949	Career Preparation for Programs of Study	At least 1 Level 2 or higher CTE course	12	2.0

Business & Industry Endorsement					
Aviation Maintenance <i>*P-TECH Early College Programs - Application Required</i>					
Level	Course #	Course Title	Pre-Req	Grade	Credit
NA	7837	Robotics I	None	9	1.0
Level 1	7865D	Principles of Transportation Systems DC	None	10	1.0
Level 1	7862D	Introduction to Aircraft Technology DC	None	10	1.0
NA	7811D3	Aviation Ground	None	10	1.0
Level 3	7892	Aircraft Airframe Tech/Lab	None	11	3.0
Level 4	7877D	Extended Practicum in Transportation Sys. DC	None	12	3.0
Level 4	7949	Career Preparation for Programs of Study	At least 1 Level 2 or higher CTE course	12	2.0

Business & Industry Endorsement					
Business Management Pathway					
Level	Course #	Course Title	Pre-Req	Grade	Credit
Level 1	7301	Principles of Business	None	9-11	1.0
Level 1	7302	Business Information Management I *	None	9-12	1.0
Level 2	7308	Virtual Business	None	10-12	0.5
Level 2	7304	Business Information Management II *	BIM I	10-12	1.0
Level 3	7310	Global Business	None	10-12	0.5
Level 4	7312	Practicum in Business Management	None	11-12	2.0
Level 4	7949	Career Preparation for Programs of Study	At least 1 Level 2 or higher CTE course	12	2.0
IBC		Microsoft Word Expert or Excel Expert			

Business & Industry Endorsement					
Culinary Pathway					
Level	Course #	Course Title	Pre-Req	Grade	Credit
Level 1	7436	Intro to Culinary Arts	None	9-12	1.0
Level 2	7427	Culinary Arts	None	10-12	2.0
Level 3	7428	Advanced Culinary Arts *	Culinary Arts	10-12	2.0
Level 4	7429	Practicum in Culinary Arts	Culinary Arts	11-12	2.0
Level 4	7949	Career Preparation for Programs of Study	At least 1 Level 2 or higher CTE course	12	2.0
IBC		ServSafe Manager OR Food Protection Manager			

STEM Endorsement					
Cybersecurity Pathway					
Level	Course #	Course Title	Pre-Req	Grade	Credit
Level 1	7729	Foundations of Cybersecurity	None	9-12	1.0
Level 2	2744	AP Computer Science Principles	None	10-12	1.0
Level 3	7712	Networking *	None	10-12	1.0
Level 4	7707	Practicum in Information Technology *	2 HS IT Courses	11-12	2.0
Level 4	7971	Career and Technical Education Project-Based Capstone	None	12	1.0
Level 4	7949	Career Preparation for Programs of Study	At least 1 Level 2 or higher CTE course	12	2.0
IBC		Comp TIA IT Fundamentals or NOCTI Computer Science Fundamentals			

STEM Endorsement					
Engineering Foundations					
Level	Course #	Course Title	Pre-Req	Grade	Credit
Level 1	7826	Principles of Applied Engineering	None	8	1.0
Level 2	7837	Robotics I	None	9	1.0
Level 3	7852	Engineering Design and Presentation I *	Algebra I	10	1.0
Level 4	7840	Engineering Design and Problem Solving	Algebra I and Geometry	11	1.0
Level 4	7829	Engineering Design and Presentation II *	Algebra I and Geometry	12	2.0
Level 4	7971	Career and Technical Education Project-Based Capstone	None	12	1.0
Level 4	7949	Career Preparation for Programs of Study	At least 1 Level 2 or higher CTE course	12	2.0
IBC		AutoDesk Auto CAD or Inventor			

Public Service Endorsement					
Diagnostic and Therapeutic Services					
Level	Course #	Course Title	Pre-Req	Grade	Credit
Level 1	7600	Principles of Health Science	None	9-10	1.0
Level 2	7605	Medical Terminology	None	9-12	1.0
Level 3	7601	Health Science Theory	Biology	10-12	1.0
Level 4	7603	Practicum in Health Science *	HS Theory & Biology	11-12	2.0
Level 4	7949	Career Preparation for Programs of Study	At least 1 Level 2 or higher CTE course	12	2.0
IBC		Medical Assistant			

Public Service Endorsement					
Law Enforcement					
Level	Course #	Course Title	Pre-Req	Grade	Credit
Level 1	7532	Principles of Law	None	9-12	1.0
Level 2	7534	Law Enforcement I	None	10-12	1.0
Level 3	7536	Law Enforcement II *	None	10-12	1.0
Level 4	7541	Practicum in Law	None	11-12	2.0
Level 4	7949	Career Preparation for Programs of Study	At least 1 Level 2 or higher CTE course	12	2.0
IBC		Non-Commissioned Private Security - Certification Flowchart			

Business & Industry Endorsement					
Plant Science Pathway					
Level	Course #	Course Title	Pre-Req	Grade	Credit
Level 1	7033	Principles of Agriculture	None	9-11	1.0
Level 3	7015	Floral Design	None	9-12	1.0
Level 3	7013	Horticulture Science	None	10-12	1.0
Level 4	7022	Advanced Plant and Soil Science	None	11-12	1.0
Level 4	7029	Practicum in Agriculture *	None	11-12	2.0
Level 4	7971	Career and Technical Education Project-Based Capstone	None	12	1.0
Level 4	7949	Career Preparation for Programs of Study	At least 1 Level 2 or higher CTE course	12	2.0
IBC		Texas State Floral Association Floral Skills and Knowledge Cert.			

Public Service Endorsement					
Teaching & Training Pathway					
Level	Course #	Course Title	Pre-Req	Grade	Credit
Level 1	7226	Communication and Technology in Edu.	None	9	1.0
Level 2	7403	Human Growth and Development	None	10	1.0
Level 3	7405	Instructional Practices	None	11	2.0
Level 4	7406	Practicum in Education and Training *	Instructional Practices	12	2.0
Level 4	7971	Career and Technical Education Project-Based Capstone	None	12	1.0
Level 4	7949	Career Preparation for Programs of Study	At least 1 Level 2 or higher CTE course	12	2.0
IBC		Educational Aide Certification			

Business & Industry Endorsement					
Welding Pathway					
Level	Course #	Course Title	Pre-Req	Grade	Credit
Level 2	7837	Robotics I	None	9-12	1.0
Level 1	7800	Introduction to Welding	None	10-12	1.0
Level 2	7812	Diversified Manufacturing I	None	10-12	1.0
Level 2	7802	Welding I	None	10-12	2.0
Level 4		Extended Practicum in Manufacturing *	None	11-12	3.0
Level 4	7971	Career and Technical Education Project-Based Capstone	None	12	1.0
Level 4	7949	Career Preparation for Programs of Study	At least 1 Level 2 or higher CTE course	12	2.0
IBC		AWS Certification			