

MAGNETS

Jay Science and Engineering Academy

Cluster	Program of Study	Crse #	NISD LEVEL 1		NISD LEVEL 2		NISD LEVEL 3		NISD LEVEL 4
Engineering	Engineering-SEA	8703	Principles of Applied Engineering M	8722	Manufacturing Engineering Technology I M	8708	Engineering Design & Presentation I M	8716	Practicum in STEM-Engineering Science M (2CR)
								8732	Engineering Design & Presentation II M (2CR)
					SolidWorks Additive Manufacturing		1) AutoCAD Certified Associate, 2) Fusion 360 3) Certified Solidworks Associate (CSWA)		1) AutoCAD Certified Associate, 2) Fusion 360 3) Certified Solidworks Associate (CSWA)
					Performance Acknowledgement		1-2) A-F Level 3) A-F Sunsetting		1-2) A-F Level 3) A-F Sunsetting
Robotics	Robotics-Advanced Manufacturing and Machinery Mechanics- SEA <small>(Students MUST complete 4 classes + A-F certification for CCMR)</small>	8703	Principles of Applied Engineering M	8722	Manufacturing Engineering Technology I M	8733	Robotics I M	8734	Robotics II M <u>AND</u>
							(TEA Level 2 Course)	8735	Manufacturing Engineering Technonogy II M
									(TEA Level 3 Course)
					SolidWorks Additive Manufacturing		1) AutoCAD Certified Associate, 2) Certified Solidworks Associate (CSWA)		1) AutoCAD Certified Associate, 2) Certified Solidworks Associate (CSWA)
			Performance Acknowledgement		1-2) Performance Acknowledgement		1-2) Performance Acknowledgement		
Biomedical	Biomedical Science-SEA	8717	Principles of Biosciences M	8719 8739	Biotechnology I M Biotechnology I D	8720	Biotechnology II M	8724	Practicum in STEM-Bio Science M (2CR)
									Biotechnicaln Assistant Credentialing Exam (BACE) A-F Level
Computer Science	Computer Science-Programming and Software Development	7104	AP Computer Science Principles M (1.0) <u>Or</u>	7111	Computer Science 1 Pre-AP (1.0)	7215 5971	AP Computer Science A 1 M (2.0) <u>OR</u>	7311	Computer Science 3 H/DC M (1.0)
		7320	Onramps Computer Science (1.0)			7212	Computer Science 2 H M (1.0)		
			(TEA Level 2 Course)						
					1) CompTIA IT Fundamentals+ 2) IT Specialist-Java 3) IT Specialist-Python 4) IT Specialist-Javascript		1) CompTIA IT Fundamentals+ 2) IT Specialist-Java 3) IT Specialist-Python 4) IT Specialist-Javascript		Java SE 8 Programmer I 1Z0-808
			1-4) Performance Acknowledgement		1-4) Performance Acknowledgement		A-F Level		

Health Careers HS

Cluster	Program of Study	Crse #	NISD LEVEL 1		NISD LEVEL 2		NISD LEVEL 3		NISD LEVEL 4
Therapeutic	Healthcare Therapeutic-Dental	8533	Principles of Health Science M	8536	Health Science Theory M	8374	Practicum in Health Science-Dental M (2CR)	8365	Practicum in Health Science-Dental M (2CR)
			Heartsaver CPR/AED/First Aid				Basic Life Support (BLS) Healthcare Provider		Registered Dental Assistant X-Ray Certification
			Entry Level				Performance Acknowledgement		A-F Level
	Healthcare Therapeutic-Medical Assistant	8533	Principles of Health Science M	8536	Health Science Theory M	8391	Practicum in Health Science- Clinical M (2CR)	8390	Practicum in Health Science - Medical Assistant M (2CR)
			Heartsaver CPR/AED/First Aid				Basic Life Support (BLS) Healthcare Provider,		Certified Clinical Medical Assistant (CCMA);
			Entry Level				Performance Acknowledgement		A-F Level
	Healthcare Therapeutic- Sterile Processing	8533	Principles of Health Science M	8536	Health Science Theory M	8391	Practicum in Health Science M (2CR) Clinical	8392	Practicum in Health Science - Sterile Processing M (2CR)
			Heartsaver CPR/AED/First Aid				Basic Life Support (BLS) Healthcare Provider,		Sterile Processing & Distribution Technician (CSPD)
			Entry Level				Performance Acknowledgement		Performance Acknowledgement
	Healthcare Therapeutic-Pharmacy Technician	8533	Principles of Health Science M	8536	Health Science Theory M	8394	Practicum in Health Science -Pharmacy Technician M (2CR)	8539	Practicum in Health Science -Pharmacy Technician M (2CR)
			Heartsaver CPR/AED/First Aid				Basic Life Support (BLS) Healthcare Provider		Pharmacy Technician CPhT
			Entry Level				Performance Acknowledgement		A-F Level
Diagnostic	Healthcare Diagnostics-Clinical Lab	8533	Principles of Health Science M	8536	Health Science Theory M	8337	Medical Microbiology M	8395	Practicum in Health Science-Clinical Lab M(2CR)
			Heartsaver CPR/AED/First Aid				Basic Life Support (BLS) Healthcare Provider (Pathophysiology)		Certified Phlebotomy Technician (CPT);
			Entry Level				Performance Acknowledgement		A-F Level
	Healthcare Diagnostics-Medical Research	8533	Principles of Health Science M	8536	Health Science Theory M	8337	Medical Microbiology M	8396	Practicum in Health Science-Medical Research M (2CR)
	Heartsaver CPR/AED/First Aid					Basic Life Support (BLS) Healthcare Provider (Pathophysiology)			
	Entry Level					Performance Acknowledgement			

Construction Careers Academy

Cluster	Program of Study	Crse #	NISD LEVEL 1		NISD LEVEL 2		NISD LEVEL 3		NISD LEVEL 4
Architecture	Architectural Design- CCA	8096	Principles of Construction M (Elective Only)	8105	Architectural Design I M	8147	Architectural Design II M (2CR)	8148	Practicum in Architectural Design M (2CR)
			1) OSHA 10-Hour Construction Industry 2) NCCER Core				1) AutoCAD Certified Associate 2) Autodesk Revit Certified User		1) AutoCAD Certified Associate 2) Autodesk Revit Certified User
			1) Performance Acknowledgement 2) Performance Acknowledgement				1-2) A-F Certification		1-2) A-F Certification
Construction	Construction Management and Inspection- CCA <small>(Students MUST complete 4 classes + A-F certification for CCMR)</small>	8096	Principles of Construction M	8097 8612	Principles of Architecture (Elective Only) Principles of Architecture D (TEA Level 1 Course)	8108 8140	Construction Management I M (2CR) Construction Management I D (2CR) (TEA Level 2 Course)	8130 8133	Construction Management II M (2CR) Construction Management II D (2CR) (TEA Level 3 Course)
			1) NCCER Core 2) OSHA 10-Hour Construction Industry				1) NCCER]-Carpentry Level 1 2) Forklift Training		
			1) A-F Level 2) Performance Acknowledgement				1) Performance Acknowledgement 2) Entry Level		
	Carpentry- CCA <small>(Students MUST complete 4 classes + A-F certification for CCMR)</small>	8096	Principles of Construction M	8097 8612	Principles of Architecture M Principles of Architecture D (TEA Level 1 Course)	8107 8141	Construction Technology I M (2CR) Construction Technology I D (2CR) (TEA Level 2 Course)	8129 8142	Construction Technology II M (2CR) Construction Technology II D (2CR) (TEA Level 3 Course)
			1) NCCER Core 2) OSHA 10-Hour Construction Industry				NCCER Carpentry Level 1		1) NCCER Carpentry Level 1 2) NCCER Carpentry Level 1
			1) A-F Level 2) Performance Acknowledgement				A-F Level		1-2) A-F Level
Trades	Plumbing and Pipefitting-CCA	8096	Principles of Construction M	8119 8132	Plumbing Technology I M Plumbing Technology I D	8120 8144	Plumbing Technology II M (2CR) Plumbing Technology II D (2CR)	8165	Practicum in Construction Technology-Plumbing M (2CR)
			1) OSHA 10-Hour Construction Industry 2) NCCER Core				1) NCCER Plumbing, Level 1 2) Plumbing Apprenticeship		1) NCCER Plumbing, Level 1 2) Plumber's Helper Certificate Level 1 3) Plumbing Apprenticeship
			1) Performance Acknowledgement 2) Performance Acknowledgement				1) A-F Level 2) Performance Acknowledgement		1-2) A-F Level 3) Performance Acknowledgement
	Electrical- CCA	8096	Principles of Construction M	8115 8145	Electrical Technology I M Electrical Technology I D	8116 8146	Electrical Technology II M (2CR) Electrical Technology II D (2CR)	8166	Practicum in Construction Technology-Electrical M (2CR)
			1) NCCER Core 2) OSHA 10-Hour Construction Industry				NCCER Electrical, Level 1		1) NCCER Electrical, Level 1 2) Electrical Apprenticeship Certificate Level 1
			1) A-F Level 2) Performance Acknowledgement				A-F Level		1-2) A-F Level
Engineering	Engineering- CCA	8096 8095	Principles of Construction M Principles of Construction D (elective only)	8708	Engineering Design & Presentation I M (TEA Level 3 Course)	8732	Engineering Design & Presentation II M (2 CR) (TEA Level 4 Course)	8716	Practicum in STEM M (2CR)
			1) OSHA 10-Hour Construction Industry 2) NCCER Core		AutoCAD Certified Associate		1) AutoCAD Certified Associate, 2) Autodesk Inventor 3) Autodesk Certified Professional in Civil 3D for Infrastructure Design 4) Land Survey Tech I		1) AutoCAD Certified Associate, 2) Autodesk Inventor 3) Autodesk Certified Professional in Civil 3D for Infrastructure Design 4) Land Survey Tech I
			1) Entry Level 2) A-F Level		A-F Level		1-3) A-F Level 4) Performance Acknowledgement		1-3) A-F Level 4) Performance Acknowledgement

NSITE

Cluster	Program of Study	Crse #	NISD LEVEL 1		NISD LEVEL 2		NISD LEVEL 3		NISD LEVEL 4
Entrepreneurship	Entrepreneurship-NSITE	8203	Principles of Business, Marketing & Finance AND	8653	Entrepreneurship I M	8673	Entrepreneurship II M	8658	Practicum in Entrepreneurship-VEI (2CR)
		8502	Principles of Information Technology (elective only)						
			PBMF 1) MOS Specialist Word 2) MOS Specialist PowerPoint PIT 1) CompTIA ITF+ 2) Internet and Computing Core Certification IC3		1) Entrepreneurship Small Business		1) Entrepreneurship Small Business		
			Performance Acknowledgement Level		1) A-F Level		1) A-F Level		
Cyber	Cyber Security-NSITE	7104	AP Computer Science Principles	8544	Cyber Internetworking I M	8548	Cyber Internetworking II M	8549	Practicum in Information Technology Cyber-VEI M (2CR)
		8203	Principles of Business, Marketing & Finance (elective only)					8725	Practicum in Information Technology-Cyber M (2CR)
			PBMF 1) MOS Specialist Word-Sunsetting 2) MOS Specialist PowerPoint PIT 1) CompTIA ITF+ 2) Internet and Computing Core Certification IC3		1) CompTIA Network+ 2) CompTIA IT F+		1) CompTIA Security +, 2) CompTIA Networking + 3) CompTIA IT F+		1) CompTIA Security +, 2) CompTIA Networking + 3) CompTIA A+ 4) PenTest+
			A-F Level Performance Acknowledgement Level		1) A-F Level 2) Performance Acknowledgement		1-2) A-F Level 3) Performance Acknowledgement		1-3) A-F Level 4) Performance Acknowledgement
		7104	AP Computer Science Principles M	7110	Advanced Computer Science 1	7215 & 5971	AP Computer Science A I OR	8510	Practicum in Information Technology-VEI (2CR)
Programming	Programming and Software Development -NSITE	8203	Principles of Business, Marketing & Finance (elective only) (TEA Level 2 Course)			7212	Computer Science 2 H	8726	Practicum in Information Technology CS/Prog(2CR)
			PBMF 1) MOS Specialist Word 2) MOS Specialist PowerPoint PIT 1) CompTIA ITF+ 2) Internet and Computing Core Certification IC3		1) Certified Entry Level Python Programmer (PCEP) 2) CompTIA IT Fundamentals+ 3) IT Specialist-Java 4) IT Specialist-Python 5) IT Specialist-Javascript		1) CompTIA IT Fundamentals+ 2) Oracle Certified Foundations Associate Java 3) IT Specialist-Java 4) IT Specialist-Python 5) IT Specialist-Javascript		1) Oracle Certified Associate Java SE 8 Programmer 2) C++ Certified Associate Programmer 3) IT Specialist-Java 4) IT Specialist-Javascript
			Performance Acknowledgement Level		1) A-F Level 2-4) Performance Acknowledgement		1) A-F Level 2-5) Performance Acknowledgement		1-2) A-F Level 3-4) Performance Acknowledgement

LMS

Cluster	Program of Study	Crse #	NISD LEVEL 1		NISD LEVEL 2		NISD LEVEL 3		NISD LEVEL 4					
Emergency Services	Fire Science-Emergency Services	8570	Principles of Law, Public Safety, Corrections, & Security M	8592	Disaster Response M	8560	Fire I M (2CR)	8561	Fire II M (2CR)					
		8571	Principles of Law, Public Safety, Corrections, & Security D											
			Heartsaver CPR/AED/First Aid Entry Level									Basic Life Support (BLS) Provider Performance Acknowledgement		
	EMT- Emergency Services	8570	Principles of Law, Public Safety, Corrections, & Security M	8592	Disaster Response M	8377 8379 8376	Anatomy & Physiology M or H Anatomy & Physiology D	8563	Emergency Medical Technician-Basic M (2CR)					
		8571	Principles of Law, Public Safety, Corrections, & Security D											
			Heartsaver CPR/AED/First Aid Entry Level									1) Emergency Medical Technician Basic 2) Basic Life Support (BLS) Provider, 1) A-F Level 2) Performance Acknowledgement		
	Behavioral Health-Emergency Services	8570	Principles of Law, Public Safety, Corrections, & Security M	8592	Disaster Response M	8537	Counseling & Mental Health M	8577	Practicum in Law, Public Safety, Corrections & Security M (2CR)					
		8571	Principles of Law, Public Safety, Corrections, & Security D											
			Heartsaver CPR/AED/First Aid Entry Level									Mental Health Technician Performance Acknowledge		
	Law & Legal	Law Enforcement	8570	Principles of Law, Public Safety, Corrections, & Security M	8573	Law Enforcement I M	8574	Law Enforcement II M AND	8577	Practicum in Law, Public Safety, Corrections & Security M (2CR)				
8571			Principles of Law, Public Safety, Corrections, & Security D											
			Heartsaver CPR/AED/First Aid Entry Level									1) Non- Commissioned Security Officer Level II 2) Mental Health Technician 1) A-F Level 2) Performance Acknowledge		
Legal Studies		8570	Principles of Law, Public Safety, Corrections, & Security M	8572	Court Systems & Practices M Court Systems & Practices D	8575	Legal Research and Writing M AND	8577	Practicum in Law, Public Safety, Corrections & Security M (2CR)					
		8571	Principles of Law, Public Safety, Corrections, & Security D	8558										
			Heartsaver CPR/AED/First Aid Entry Level								8576	Criminal Investigations M (Elective Only) (TEA Level 2 Course)		
													Mental Health Technician Performance Acknowledge	
Govt. and Public Admin.		Government & Public Administration	8580	Principles of Government & Public Administration	8581	Political Science I M	8582	Political Science II M AND	8578	Practicum in Local, State and Federal Government M (2CR)				
							8588	Dimensions of Diplomacy M OR						
						8583	Planning & Governance M AND							
						8584	Public Management and Administration M							
Medical Services	Physical Therapy-Medical Therapy	8533	Principles of Health Science	8349	Physical Therapy I M	8366	Health Science Theory-Physical Therapy M	8397	Practicum in Health Science - Physical Therapy M (2CR)					
						8376 8377 8379	Anatomy and Physiology							
			Heartsaver CPR/AED/First Aid Entry Level					Basic Life Support (BLS) Healthcare Provider Performance Acknowledgement		Physical Therapy Aide Performance Acknowledgement				
	Nursing Science <small>(Students MUST complete 4 classes + A-F certification for CCMR)</small>	8533	Principles of Health Science	8564	Principles of Nursing M	8565	Science of Nursing M	8566	Practicum in Health Science Nursing- CNA M (2CR)					
				(TEA Level 1 Course)		(TEA Level 2 Course)								
		Heartsaver CPR/AED/First Aid Entry Level				Basic Life Support (BLS) Healthcare Provider Performance Acknowledgement		Certified Nurse Aide/Assistant A-F Level						

Agriculture Science and Technology Academy

Cluster	Program of Study	Crse #	NISD LEVEL 1		NISD LEVEL 2		NISD LEVEL 3		NISD LEVEL 4
Agriculture, Food, and Natural Resources	Animal Science	8050 8065	Principles of Agriculture, Food, and Natural Resources	8051	Livestock Production (TEA Level 3 Course)	8048	Veterinary Medical Applications (TEA Level 4 Course)	8053	Advanced Animal Science
								8064	Practicum in Agriculture, Food, & Natural Resources-Animal Science (2CR)
					Texas Beef Quality Assurance		Certified Veterinarian Assistant, Level 1		1) Certified Veterinarian Assistant, Level 1 2) Elanco Fundamentals of Animal Science 3) Texas Beef Quality Assurance
					Performance Acknowledgement Level		A-F Level		1-2) A-F Level 3) Performance Acknowledgement
	Plant Science	8050 8065	Principles of Agriculture, Food, and Natural Resources	8057 8047	Floral Design (1 CR) Floral Design D (1 CR) AND/OR	8069 8046	Advanced Floral Design Advanced Floral Design D AND/OR	8068	Practicum in Agriculture, Food, & Natural Resources-Plant Science (2CR)
				8059	Horticultural Science (1 CR) (TEA Level 3 Course)	8060 8067	Advanced Plant & Soil Science Advanced Plant & Soil Science D (TEA Level 4 Course)		
					1) Texas State Floral Association Level I Floral Certification		1) Texas State Floral Association Level I Floral Certification 2) Commercial/Noncommercial Pesticide Applicator 3) Texas Certified Nursery Professional		1) Texas State Floral Association Level II Floral Certification 2) BASF Plant Science Certification
					1 A-F Level		1-3) A-F Level		1-2) A-F Level
	Applied Agricultural Engineering	8050 8065	Principles of Agriculture, Food, and Natural Resources	8061	Agriculture Mechanics & Metal Technologies (1 CR)	8062	Agricultural Structures Design & Fabrications (1 CR)	8070	Practicum in Agriculture, Food, & Natural Resources-Ag Engineering (2CR) AND/OR
						8075	Geographic Information Systems for Ag. (elective only)	8042	Agriculture Equipment Design & Fabrication M
					(AWS)- American Welding Society D1.1 and D9.1 A-F Level		(AWS) American Welding Society-D1.1 and D9.1 A-F Level		(AWS) American Welding Society-D1.1 and D9.1 A-F Level
	ASTA Electives	8056 8066	Wildlife, Fisheries & Ecology Mgt. Wildlife, Fisheries & Ecology Mgt. D	8214 8217 8221	Leadership in Ag. 1 Leadership in Ag. 2 Leadership in Ag. 3				
			1) Ecology Conservation Management Certification-Ducks Unlimited (ICEV) 2) Hunter's Education 1-2) Entry Level						

Northside ISD does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. Further nondiscrimination information can be found at [Notification of Nondiscrimination in Career and Technical Education Programs.](#)