

The Academy for Advanced Studies (AAS)

Career, Technical, and Agricultural Education (CTAE) and Fine Arts

Pathways and Course Offerings for 2025-2026

SCHOOL OF BUSINESS & DESIGN	
Cloud Computing**	Cybersecurity**
Course 1 – Intro to Software Technology	Course 1 – Intro to Hardware Technology
Course 2 – Computer Science Principles	Course 2 – Introduction to Cybersecurity
Course 3 – Cloud Computing	Course 3 – Advanced Cybersecurity
Entrepreneurship	Fashion, Merchandising and Retail Management
Course 1 – Intro to Business & Technology	Course 1 – Marketing Principles
Course 2 – Legal Environment of Business	Course 2 – Fashion, Merchandising and Retailing
Course 3 – Entrepreneurship	Course 3 – Advanced Fashion, Merchandising
Financial Services	Game Design**
Course 1 – Intro to Business and Technology	Course 1 – Intro to Software Technology
Course 2 – Financial Literacy	Course 2 – Computer Science Principles
Course 3 – Banking, Investing & Insurance	Course 3 – Game Design: Animation & Simulation
Hospitality, Recreation and Tourism	Marketing Communications & Promotions
Course 1 – Marketing Principles	Course 1 – Marketing Principles
Course 2 – Hospitality, Recreation and Tourism Essentials	Course 2 – Promotion and Digital Marketing
Course 3 – Hospitality, Recreation and Tourism Management	Course 3 – Integrated Marketing Communications
SCHOOL OF WELLNESS & COMMUNITY SERVICES	
Baking and Pastry	Culinary Arts**
Course 1 – Intro to Culinary Arts	Course 1 – Intro to Culinary Arts
Course 2 – Baking and Pastry I	Course 2 – Culinary Arts I
Course 3 – Baking and Pastry II	Course 3 – Culinary Arts II
Early Childhood Care & Education II	Emergency Medical Technician (EMT)
*Prerequisites (Courses 1 & 2) taken at home high school	Course 1 – Introduction to Healthcare
*Course 1 – Early Childhood Education I	Course 2 – Essentials of Healthcare
*Course 2 – Early Childhood Education II	Course 3 – Emergency Medical Technician
Course 3 – Early Childhood Education Practicum	
JROTC – Navy (*HHS, LGHS & WHS students only)	Pharmacy** [SENIORS ONLY/YEAR LONG]
** (This program is located at McDonough High School)**	Course 1 – Introduction to Healthcare
Course 1 – JROTC Navy I (1 st) - Navy Cadet Field (2 nd)	Course 2 – Essentials of Healthcare
Course 2 – JROTC Navy II (1 st) - Nautical Science (2 nd)	Course 3 – Pharmacy Operations & Fund.
Course 3 – JROTC Navy III (1 st) - Naval Knowledge (2 nd)	
Course 4 – JROTC Navy IV (1 st) - Effective Comm. (2 nd)	
Phlebotomy** [SENIORS ONLY]	Teaching as a Profession
Course 1 – Introduction to Healthcare	Course 1 – Examining the Teaching Profession
Course 2 – Essentials of Healthcare	Course 2 – Contemporary Issues in Education
Course 3 – Diagnostics Phlebotomy	Course 3 – Teaching as a Profession Practicum
Therapeutic Services/Exercise Physiology**	Veterinary Science/Equine Science
Course 1 – Introduction to Healthcare	Course 1 – Basic Agricultural Science
Course 2 – Essentials of Healthcare	Course 2 – Animal Science & Biotechnology
Course 3 – Fundamentals of Exercise Physiology	Course 3 – Veterinary Science / Equine Science

****Pathway can lead to Industry-Recognized Credentialing.**

SCHOOL OF ENGINEERING, POWER & AUTOMATION	
Carpentry, Electrical, Masonry, Plumbing	Electronics
Course 1 – Industry Fund. & Occupational Safety	Course 1 – Foundations of Electronics
Course 2 – Introduction to Construction	Course 2 – Advanced AC & DC Circuits
Course 3 – Carpentry / Electric / Masonry / Plumbing	Course 3 – Digital Electronics
Energy & Power: Generation, Transmission & Distribution	Engineering, Drafting & Design**
Course 1 – Foundation of Energy Technologies	Course 1 – Intro to Drafting & Design
Course 2 – Energy & Power: Generation, Transmission	Course 2 – Survey of Engineering Graphics
Course 3 – Energy Systems Applications	Course 3 – 3D Modeling and Analysis
General Automotive Technology**	Mechatronics
Course 1 – Automotive Technologies I	Course 1 – Introduction to Mechatronics
Course 2 – Automotive Technologies II	Course 2 – AC Theory, Elec. Motors & Hydraulics
Course 3 – Automotive Technologies III	Course 3 – Semiconductors, Mech. Sys & Pump
Course 4 – Advanced Automotive Tech IV	
Course 5 – Advanced Automotive Tech V	
Course 6 – Advanced Automotive Tech VI	
Welding**	
Course 1 – Industry Fund. & Occupational Safety	
Course 2 – Introduction to Metals	
Course 3 – Welding I	
Course 4 – Research/Design/Project Management	
SCHOOL OF CREATIVE STUDIES	
Audio-Video Technology & Film II	Dance
Course 1 – Audio-Video Tech & Film I	Course 1 – Dance I
Course 2 – Audio-Video Tech & Film II	Course 2 – Dance II
Course 3 – Broadcast Video Production App	Course 3 – Dance III
	Course 4 – Dance IV
	Course 5 – Dance Composition
Graphic Design & Communication	Music Technology
Course 1 – Introduction to Graphics & Design	Course 1 – Beginning Music Technology
Course 2 – Graphic Design and Production	Course 2 – Intermediate Music Technology
Course 3 – Advanced Graphic Design	Course 3 – Advanced Music Technology
Course 4 – Advanced Graphic Output Processes	Course 4 – Mastery Music Technology
	Non-Pathway Course – Song Writing
Personal Care Services - Cosmetology	Technical Theatre
Course 1 – Introduction to Personal Care Services	Course 1 – Technical Theatre I
Course 2 – Cosmetology Services II	Course 2 – Technical Theatre II
Course 3 – Cosmetology Services III	Course 3 – Technical Theatre III
	Course 4 – Technical Theatre IV
Theatre/Acting	Visual Arts- Ceramics & Pottery
Course 1 – Theatre Arts/Acting I	Course 1 – Visual Arts/Ceramics/Pottery I
Course 2 – Theatre Arts/Acting II	Course 2 – Visual Arts/Ceramics/Pottery II
Course 3 – Theatre Arts/Acting III	Course 3 – Visual Arts/Ceramics/Pottery III
Course 4 – Theatre Arts/Acting IV	Course 4 – Visual Arts/Ceramics/Pottery IV
Visual Arts- Sculpture	
Course 1 – Visual Arts/Sculpture I	
Course 2 – Visual Arts/Sculpture II	
Course 3 – Visual Arts/Sculpture III	
Course 4 – Visual Arts/Sculpture IV	
Course 5 – AP Studio Art: 3D	

****Pathway can lead to Industry-Recognized Credentialing**

Updated 3/17/2025

WORK-BASED LEARNING (WBL)

Work-Based Learning provides students the opportunity to receive credit while working in an environment related to their career pathway. WBL at AAS is for 11th and 12th-grade students. To apply for WBL, please visit the AAS webpage.

DUAL ENROLLMENT TECHNICAL CERTIFICATE OF CREDIT (TCC) WITH SOUTHERN CRESCENT TECHNICAL COLLEGE

AB51 Auto Collision Repair Assistant I (12 Hours) (10 th - 12 th grade)	BA71 Barbering Assistant (18 Hours) (10 th - 12 th grade)
Course 1 – ACRP 1000 - Intro to Automotive Collision (4 hrs)	Course 1 – BARB 1000 - Intro to Barber/Styling Implem. (3 hrs)
Course 2 – ACRP 1005 - Auto Component Repair (4 hrs)	Course 2 – BARB 1010 - Sterilization, Sanitation, Bact. (3 hrs)
Course 3 – ACRP 1015 - Fundamental of Auto Welding (4 hrs)	Course 3 – BARB 1022 - Haircutting and Shampooing I (3 hrs)
	Course 4 – BARB 1024 - Haircutting and Shampooing II (3 hrs)
	Course 5 – BARB 1030 - Haircutting/Basic Styling (3 hrs)
	Course 6 – BARB 1110 - Shop Management/Ownership (3 hrs)
CJ71 Criminal Justice Fundamentals (12 Hours) (10 th - 12 th grade)	CJ21 Criminal Justice Specialist (15 Hours) (10 th - 12 th grade)
Course 1 – COMP 1000 - Intro to Computers (3 hrs)	Course 1 – CRJU 1010 - Criminal Justice Essentials (3 hrs)
Course 2 – CRJU 1010 - Criminal Justice Essentials (3 hrs)	Course 2 – CRJU 1030 - Corrections (3 hrs)
Course 3 – CRJU 1030 - Corrections (3 hrs)	Course 3 – CRJU 1040 - Principles of Law Enforcement (3 hrs)
Course 4 – CRJU 1040 - Principles of Law Enforcement (3 hrs)	Course 4 – CRJU 1068 - Criminal Law for Criminal Just. (3 hrs)
	Course 5 – CRJU 2020 - Constitutional Law (3 hrs)
EMJ1 Emergency Medical Technician (EMT) (16 Hours) (11 th - 12 th grade)	IE41 Industrial Electrician TCC (10 Hours) (10 th - 12 th grade)
Course 1 – EMSP 1110 - Intro to the EMT Profession (3 hrs)	Course 1 – IDSY 1101 - DC Circuit Analysis (3 hrs)
Course 2 – EMSP 1120 - EMT Assessment/Airway (3 hrs)	Course 2 – IDSY 1105 - AC Circuit Analysis (3 hrs)
Course 3 – EMSP 1150 - Shock/Trauma (3 hrs)	Course 3 – IDSY 1130 - Industrial Wiring (4 hrs)
Course 4 – EMSP 1130 - Medical Emergencies (3 hrs)	IF11 Industrial Fluid Power Technician TCC (11 Hours) (10 th - 12 th grade)
Course 5 – EMSP 1140 - Special Patient (3 hrs)	Course 1 – IDSY 1170 - Industrial Mechanics (4 hrs)
Course 6 – EMSP 1160 - Clinical and Practical (1 hr)	Course 2 – IDSY 1190 - Fluid Power Systems (4 hrs)
LA51 Logistics and Supply Chain Technician (9 Hours) (10 th - 12 th grade)	Course 3 – IDSY 1195 - Pumps and Piping Systems (3 hrs)
Course 1 – SCMA 1000 - Intro to Supply Chain Mngmt. (3 hrs)	
Course 2 – SCMA 1003 - Intro to Transport. and Logistics (3 hrs)	
Course 3 – LOGI 1000 - Logistics Fundamentals (3 hrs)	
MT21 Mechatronics Technician (12 Hours) (10 th - 12 th grade)	GM21 NCCER Gas Metal Arc Welding (11 Hours) (10 th - 12 th grade)
Course 1 – IDSY 1005 - Introduction to Mechatronics (4 hrs)	Course 1 – COFC 1080 - Construction Trades Core (4 hrs)
Course 2 – IDSY 1170 - Industrial Mechanics (4 hrs)	Course 2 – WELD 1007 - Welding Technology Fund. (3 hrs)
Course 3 – IDSY 1190 - Fluid Power Systems (4 hrs)	Course 3 – WELD 1037 - GMAW and FCAW Welding (4 hrs)
SM21 NCCER Shielded Metal Arc Welding (11 Hours) (10 th - 12 th grade)	CN21 Nurse Aide (13 Hours) (11 th - 12 th grade)
Course 1 – COFC 1080 - Construction Trades Core (4 hrs)	Course 1 – ALHS 1040 - Intro to Health Care (3 hrs)
Course 2 – WELD 1007 - Welding Technology Fund. (3 hrs)	Course 2 – ALHS 1090 - Medical Terminology (2 hrs)
Course 3 – WELD 1015 - Shielded Metal Arc Welding I (4 hrs)	Course 3 – ALHS 1060 - Diet and Nutrition for Allied (2 hrs)
	Course 4 – NAST 1100 – Patient Care Fundamentals (6 hrs)
PC51 Prep Cook (12 Hours) (10 th - 12 th grade)	ST11 Salon and Spa Support Specialist (13 Hours) (10 th - 12 th grade)
Course 1 – CUUL 1110 - Culinary Safety and Sanitation (2 hrs)	Course 1 – COSM 1000 - Intro to Cosmetology Theory (4 hrs)
Course 2 – CUUL 1122 - Found. of Cooking Principles (3 hrs)	Course 2 – COSM 1020 - Hair Care and Treatment (3 hrs)
Course 3 – CUUL 1000 - Fundamentals of Culinary Arts (4 hrs)	Course 3 – COSM 1040 - Styling (3 hrs)
Course 4 – CUUL 1124 - Found. of Cooking Techniques (3 hrs)	Course 4 – COSM 1120 - Salon Management (3 hrs)

ACCELERATED CAREER EDUCATION (ACE) PROGRAMS
DUAL ENROLLMENT **TECHNICAL CERTIFICATE OF CREDIT (TCC)**
WITH SOUTHERN CRESCENT TECHNICAL COLLEGE

INDUSTRIAL SYSTEMS (21 Hours)

(10th - 12th grade)

IF11 Industrial Fluid Power Technician TCC (11 Hours)	IE41 Industrial Electrician TCC (10 Hours)
IDSY 1170 – Industrial Mechanics (4 hrs)	IDSY 1101 – DC Circuit Analysis (3 hrs)
IDSY 1190 – Fluid Power Systems (4 hrs)	IDSY 1105 – AC Circuit Analysis (3 hrs)
IDSY 1195 – Pumps and Piping Systems (3 hrs)	IDSY 1130 – Industrial Wiring (4 hrs)
WELDING (15 Hours)	
(10 th - 12 th grade)	
GM21 NCCER Gas Metal Arc Welding TCC (11 Hours)	SM21 NCCER Shielded Metal Arc Welding TCC (4 Hours)
COFC 1080 - Construction Trades Core (4 hrs)	WELD 1015 – Shielded Metal Arc Welding I (4 hrs)
WELD 1007 - Welding Technology Fundamentals (3 hrs)	
WELD 1037 - GMAW and FCAW Welding (4 hrs)	

ACCELERATED CAREER EDUCATION (ACE) PROGRAMS
DUAL ENROLLMENT **PROGRAMS LEADING TO LICENSURE**
WITH SOUTHERN CRESCENT TECHNICAL COLLEGE

BI31 BARBERING (41 Hours) (10 th - 12 th grade)	
BARB 1000 – Introduction to Barber/Styling (3 hrs)	
BARB 1010 – Science: Sterilization, Sanitation (3 hrs)	
BARB 1030 – Haircutting/Basic Styling (3 hrs)	
BARB 1040 – Shaving (3 hrs)	
BARB 1050 – Science: Anatomy and Physiology (3 hrs)	
BARB 1082 – Practicum I (4 hrs)	
BARB 1084 – Practicum II (4 hrs)	
BARB 1090 – Facial and Facial Treatments (4 hrs)	
BARB 1100 – Live Work Practicum (4 hrs)	
BARB 1110 – Shop Management/Ownership (4 hrs)	
BARB 1022 – Shampooing (3 hrs)	
BARB 1024 – Basic Haircutting (3 hrs)	

ACCELERATED CAREER EDUCATION (ACE) PROGRAMS
DUAL ENROLLMENT **TECHNICAL DIPLOMAS**
WITH SOUTHERN CRESCENT TECHNICAL COLLEGE

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ACCELERATED CAREER EDUCATION (ACE) PROGRAMS
DUAL ENROLLMENT **ASSOCIATE OF APPLIED SCIENCE DEGREES**
WITH SOUTHERN CRESCENT TECHNICAL COLLEGE

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