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 (for 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 (1st) - Navy Cadet Field (2nd)	Course 2 – Essentials of Healthcare
Course 2 – JROTC Navy II (1st) - Nautical Science (2nd)	Course 3 – Pharmacy Operations & Fund.
Course 3 – JROTC Navy III (1st) - Naval Knowledge (2nd)	
Course 4 – JROTC Navy IV (1st) - Effective Comm. (2nd)	
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.*

Updated 10/6/2025

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 10/6/2025

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 AND THE ACADEMY FOR ADVANCED STUDIES	
AB51 **Auto Collision Repair Assistant I (12 Hours)** (10th - 12th grade)	BA71 **Barbering Assistant (18 Hours)** (10th - 12th 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)** (10th - 12th grade)	CJ21 **Criminal Justice Specialist (15 Hours)** (10th - 12th 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)
ED91 **Emergency Medical Technician: EMT (12 Hours)** (11th - 12th grade)	IE41 **Industrial Electrician TCC (10 Hours)** (10th - 12th grade)
Course 1 – EMSP 1210 - EMT Theory I (3 hrs)	**Course 1 – IDSY 1101 - DC Circuit Analysis (3 hrs)**
Course 2 – EMSP 1211 - EMT Lab I (2 hrs)	**Course 2 – IDSY 1105 - AC Circuit Analysis (3 hrs)**
Course 3 – EMSP 1220 - EMT Theory II (3 hrs)	**Course 3 – IDSY 1130 - Industrial Wiring (4 hrs)**
Course 4 – EMSP 1221 – EMT Lab II (3 hrs)	
Course 5 – EMSP 1230 – EMT Clinical (1 hr)	
LA51 **Logistics and Supply Chain Technician (9 Hours)** (10th - 12th grade)	IF11 **Industrial Fluid Power Technician TCC (11 Hours)** (10th - 12th grade)
Course 1 – SCMA 1000 - Intro to Supply Chain Mngmt. (3 hrs)	**Course 1 – IDSY 1170 - Industrial Mechanics (4 hrs)**
Course 2 – SCMA 1003 - Intro to Transport. and Logistics (3 hrs)	**Course 2 – IDSY 1190 - Fluid Power Systems (4 hrs)**
Course 3 – LOGI 1000 - Logistics Fundamentals (3 hrs)	**Course 3 – IDSY 1195 - Pumps and Piping Systems (3 hrs)**
MT21 **Mechatronics Technician (12 Hours)** (10th - 12th grade)	GM21 **NCCER Gas Metal Arc Welding (11 Hours)** (10th - 12th 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)** (10th - 12th grade)	CN21 **Nurse Aide (13 Hours)** (11th - 12th 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)** (10th - 12th grade)	ST11 **Salon and Spa Support Specialist (13 Hours)** (10th - 12th 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)**

Updated 10/6/2025

ACCELERATED CAREER EDUCATION (ACE) GRANT PROGRAM
WITH SOUTHERN CRESCENT TECHNICAL COLLEGE (SCTC) AND THE ACADEMY FOR ADVANCED STUDIES (AAS)

Accelerated Career Pathways give eligible students an exciting opportunity to fast-track their education. With this program, students can earn both a high school diploma and a technical college credential(s).

ACCELERATED CAREER — HIGH SCHOOL & COLLEGE REQUIREMENTS

Revised 2/3/2025

HIGH SCHOOL REQUIREMENTS

- 2 English Courses (including EOC course)
- 2 Mathematics Courses (including EOC course)
- 2 Science Courses (including EOC course)
- 2 Social Studies Courses
- 1 Health/Fitness Course

Students may replace one Social Studies course with an additional Math course. Local School Districts may NOT add additional requirements above the state minimum.

COMPLETE ANY OF THE FOLLOWING TECHNICAL COLLEGE CREDENTIALS

- 2 Published Technical Certificates or
- A Technical Diploma or
- A Published Program Leading to Licensure (PLL) or
- An Associate of Applied Science Degree (AAS)

AAS, Diploma, PLL, and TCC program offerings and placement criteria vary by college. Please contact your TCSG College for progam availability and eligibility.

ACCELERATED CAREER — APPROVED PROGRAMS THAT LEAD TO LICENSURE

Revised 2/3/2025

CGL1 Cosmetology for Licensure
EB71 Emergency Medical Responder
EMJ1 Emergency Medical Technician
CE11 Esthetician
HD21 Hair Designer
NT11 Nail Technician
PN21 Practical Nursing
BI31 Barber II
BA31 Master Barber

ACCELERATED CAREER — TECHNICAL CERTIFICATES OF CREDIT (TCCs)

Revised 2/3/2025

To explore Accelerated Career TCCs, visit **TCSG.edu/ACPathways**.

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TCSG Overview of Current approved ACE Grant eligible programs

ACE DUAL ENROLLMENT **TECHNICAL CERTIFICATE OF CREDIT (TCC)**
WITH SOUTHERN CRESCENT TECHNICAL COLLEGE **(SCTC)** AT THE ACADEMY FOR ADVANCED STUDIES **(AAS)**

PROGRAM AREA: **Architecture and Construction**
(**15 Hours Total for both TCCs**) at **AAS**
(10th - 12th grade)

GM21 **NCCER Gas Metal Arc Welding TCC** (**11 Hours**)	SM21 **NCCER Shielded Metal Arc Welding TCC** (**11 Hours**)
COFC 1080 - Construction Trades Core (4 hrs)	**COFC 1080 - Construction Trades Core (4 hrs)**
WELD 1007 - Welding Technology Fundamentals (3 hrs)	**WELD 1007 - Welding Technology Fundamentals (3 hrs)**
WELD 1037 - GMAW and FCAW Welding (4 hrs)	**WELD 1015 – Shielded Metal Arc Welding I (4 hrs)**

See List to choose two Technical Certificate of Credit **(TCC)** Programs within the same Program Area.

Updated 10/6/2025