"Connecting Passion to Pathway"

Our mission is to cultivate a Career & Technical Education environment where post-secondary and industry partnerships provide relevant learning opportunities for high school students and the Douglas County community in order to ensure a competitive advantage and workforce readiness.

2023-2024 Pathways:

Aviation
Architecture
Building Controls Technology
Advanced Robotics & Mechatronics
Future Educators/Teachers
Networking & Cloud Computing
Culinary & Hospitality
Emergency Medical Technician (EMT)
Certified Nurse's Assistant (CNA)
Check out the website for more information

Sign up for a tour of the DCSD Legacy Campus

Sign up for the DCSD Legacy Campus monthly newsletter
How To Use this Course Guide:

Each Pathway has its own specific courses, pre-requisites, and opportunities, so read the course descriptions for information about commitments, fees, and college credits. Each pathway has a suggested sequence of learning and a graphic illustrating the flow of learning. More courses will be established as pathways develop.

Page 5-16 refer to DCSD classes taught in a concurrent enrollment or dual enrollment model where students earn high school and college credit through college classes taught by approved DCSD staff. Pages 17-22 explain college classes that are taught by ACC to DCSD students at the Legacy Campus.

Steps to Register:

1. Do your homework...Read through this guide, check out the FAQ on our website, attend a tour or information night
2. Work with your school counselor to complete the CTE Request form (this will be available from high school counselors). The form opens Jan. 9th, 2022 and closes Feb. 10th, 2022.
3. Check your email for additional application information. You will receive an application for the specific program you indicated on the CTE Request Form, due back by March 10th, 2022. *Your counselor will also receive a recommendation form to verify your eligibility.
4. Once accepted, your counselor will place your courses in your schedule.
5. Classes begin at the start of the school year just like your other high school classes.
6. Attend the DCSD Legacy Campus Back to School Night in August and look for emails from your teacher with important information (including textbooks, equipment, etc.).

*CNA, EMT, and Building Controls Technology may have a different application process communicated through ACC’s faculty.

For more information, details, and resources, please utilize www.LegacyCampus.org.
Schedules

Block Periods

Because students who take classes at the DCSD Legacy Campus only take 1-2 classes per semester at Legacy and still take the majority of their classes at their home high school, it is imperative that students work closely with their school counselor to request courses and ensure they are on-track for graduation.

Some pathways require a "double-blocked" class in order for students to complete the required instructional minutes. Because of this, you will see some classes that require back-to-back or combined class periods. Pathway applications will ask students to make their first choice for AM or PM courses, but we cannot always adjust when classes are offered. Friday classes will be held remotely/virtually.

Transportation

DCSD is working with our transportation department to provide student buses from their home high school to the Legacy Campus. Tentatively, buses would run before school, midday, and after school with connecting routes to neighborhood high schools. There is currently NO PARKING FEE if students provide their own transportation to/from the Legacy Campus.

Coordinated Bell Schedules

DCSD is committed to providing a comprehensive high school experience that provides our students the opportunities to explore their passions and gain a competitive advantage following high school graduation. Beginning in the 2023-2024 school year, each of DCSD’s nine comprehensive high schools will implement coordinated 4x1 schedules. A sample of your individual school’s bell schedule will be provided by your high school principal. Legacy’s bell schedule will allow students from all neighborhood and alternative education high schools access on this new compatible bell schedule.

Sample Student Schedules

*Students will work with their counselors to determine actual schedule.*

<table>
<thead>
<tr>
<th>'Double-blocked' class AM cohort</th>
<th>'Single-blocked' class AM cohort</th>
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<tbody>
<tr>
<td>Legacy Campus Pathway</td>
<td>Legacy Campus Pathway</td>
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<tr>
<td>Math</td>
<td>Advisement</td>
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<tr>
<td>Legacy Campus Pathway</td>
<td>English</td>
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<tr>
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<td>Social Studies</td>
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<thead>
<tr>
<th>'Double-blocked' class PM cohort</th>
<th>'Single-blocked' class PM cohort</th>
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</thead>
<tbody>
<tr>
<td>English</td>
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<td>Math</td>
<td>World Language</td>
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<td>Legacy Campus Pathway</td>
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<td>Legacy Campus Pathway</td>
<td>Legacy Campus Pathway</td>
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<tr>
<td>Elective</td>
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</tbody>
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Student Information

Eligibility

Courses are open to all 11th and 12th grade students (unless indicated by course - CNA and EMT pathways are only open to 12th grade students). If courses have specific pre-requisites, those will be listed in the course guide.

Students should be in good standing academically, and be on-track to graduate by accumulating the necessary high school credits. Pathway selection should reflect a student’s current career goals and strengths. Career and interest inventories such as Naviance can be utilized to help guide students.

Bring Your Own Device

For your student to fully participate in the classroom learning environment, they will need to bring a minimum of a Chromebook-level device with them daily. The DCSD student-technology BYOD policy allows students to bring and use their personal laptops at school or during online learning. To be compatible with classroom or online learning, the device must be able to connect to the DCSD secure wireless network. Students will use their devices in the classroom or online learning to access and save information from the Internet, collaborate with other learners, and utilize the productivity tools, such as Google Classroom, that are available to them. Devices should have the following minimum specifications: Chromebook, 4GB Ram 16GB HD, 128GB Memory.

Please note that: A small number of devices are available for long-term check-out for students demonstrating need and meeting requirements. (Click here or visit legacycampus.org for link to our device specifications)

Fees

All courses at the Legacy Campus are available to DCSD students for a reduced cost or no cost. Some universities do have low-cost fees for college credit. See notes next to each course for more information. Some courses also have material fees to cover the cost of consumables and software licenses, etc. Most fees are collected through MySchoolBucks, but classes that are not concurrent enrollment may be assessed by the accrediting institution (i.e. ACC, MSU). Please reach out with any questions if you receive a bill from a school other than DCSD.

Students also provide their own textbooks for college classes. These can be purchased through college bookstores or online, and specific information will be provided by the instructor.

Financial assistance can be provided for students who need it. Please communicate financial need with the student’s instructor or counselor.
Advanced Robotics

The Advanced Robotics Pathway is an experiential learning program with specialized training in robotics and automation topics such as automated control systems, manufacturing, electrical principles, and robotic programming. The multidisciplinary curriculum provides students with the diverse skill set required to install, calibrate, modify, troubleshoot, repair, program, and maintain automated systems and industrial robots.

Students have the opportunity to earn industry credentials from industry leaders such as PMMI, SACA, Snap-on, and NC3. Students can also continue in the program to earn their AAS degree in Robotics and Automation.

Recommended Learning Sequence

Fall Semester

**Year 1**

* CTE Robotics & Automated Systems & * ACC-ELT 1206 Fundamental DC/AC

*These classes are Double-blocked so students need to register for both classes to be taken concurrently (unless taking CTE Robotics & Automated Systems at their home high school).

Spring Semester

**Year 2**

* ACC-ELT 2455 Fluid Power

* ACC-ELT 2367 Intro to Industrial Robotics

* Students can register for one or both of spring classes.

* Students need to take ELT 1206 before ELT 2367 - but there is no prereq for ELT 2455.

Tentatively ACC-ELT 2254 Industrial Wiring Courses TBD for 2024-2025 SY

Tentatively ACC-ELT 2252 Motors & Controls Courses TBD for 2024-2025 SY

Typically, year 1 = 11th grade, year 2 = 12th grade, year 3 = ACSENT enrollment
Advanced Robotics

CTE ROBOTICS & AUTOMATED SYSTEMS
791400302 - .5 Practical Arts Credit (high school credit only)

Pre-req: none        Course Fee: $50        Offered: Fall        Co-requisite: ACC ELT 1206

Automated Systems is an applied course for students who wish to explore how robots and automated systems are used in industry. Upon completion of this course, students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems.

Industry Certifications: Snap-on Hand Tool

ACC-ELT 1206 FUNDAMENTAL DC/AC
691410002 - 1.0 Elective credit/4 Credits Arapahoe Community College

Pre-req: none        Co-Requisite: CTE Robotics/Auto Sys Recommended: pre-algebra        Offered: Fall

Introduces the basic skills needed for many careers in electronics and related fields. Covers the operations and applications of basic DC and AC circuits consisting of resistors, capacitors, inductors, transformers, and diodes. Emphasizes the use of common test instruments in troubleshooting. This class will also help students prepare for AP Physics.

Industry certificates: Snap-on mulimeter& SACA Electrical Systems I

ACC-ELT 2455 FLUID POWER
69140005 - .5 Elective Credit/3 Credit Arapahoe Community College

Pre-req: none        Offered: Spring

Enables the student to study, construct, test, and evaluate circuit diagrams, the transmission of force and energy, pumps and motors, actuators, cylinders, valves, and control devices. Incorporates the construction of hydraulic and pneumatic circuits using industrial equipment in the laboratory.

Industry certificates: SACA Pneumatic Systems I

ACC-ELT 2367 INTRO TO INDUSTRIAL ROBOTICS
69140006 - .5 Elective Credit/1 Credit Arapahoe Community College

Pre-req: ELT 1206        Offered: Spring

Introduces basic robotics. Enables the student to program a robot in a higher-level language to perform various tasks. Covers building and interfacing of sensor circuits.

Industry certificates: SACA Robotic Operations I

Co-curricular & Other Opportunities: First Robotics, Battle Bots, VEX Robots, TSA
Internship/WorkBased Learning Opportunities: students will be placed with local industry partners
Continuing Education Opportunities: ASCENT, PTECH, transfer credit

FOR MORE VISIT: www.legacycampus.org
Architecture

DCSD students will have the opportunity to take architectural classes at the Legacy Campus, earn college credit through Arapahoe Community College, and can earn industry certificates such as CAD, Solidworks, and Revit.

While taking these courses, students begin working toward an Architectural Drafting Certificate which can contribute to pre-architecture associate and bachelor degrees with additional classes, and allows students to be immediately employable in the industry.

Pre-req: For the Architecture pathway, students do need to qualify by demonstrate college readiness in English & Math (see your counselor or click here for the ACC placement guide.)

Recommended Learning Sequence

**Fall Semester**
- AEC 1200 Print Reading Residential/Commercial
- AEC 1510 Building Materials

**Spring Semester**
- CAD 1101 Computer Aided Drafting & CAD 1102 (Double-blocked)

**Year 2**
- CAD 2220 Revit Architecture
- Internship
Architecture

ACC - AEC 1200 PRINT READING
RESIDENTIAL/COMMERCIAL
6909101 - .5 Practical Arts Credit
3 Credits Arapahoe Community College

Pre-req: Demonstrate college readiness in English & Math (see your counselor or click here for the ACC placement guide.)

Interpret construction prints and the related documents produced by the residential or commercial architect and used in the construction industry.

ACC - AEC 1510 BUILDING MATERIAL
6909102 - .5 Practical Arts Credit
3 Credits Arapahoe Community College

Pre-req: Demonstrate college readiness in English & Math (see your counselor or click here for the ACC placement guide.)

This course will cover the study of building materials and methods commonly used within the construction industry. The course will include interior and exterior materials used in everything from foundations to roof systems.

ACC - CAD 1101 COMPUTER AIDED DRAFTING/2D I
6909103 - .5 Practical Arts Credit
3 Credits Arapahoe Community College

Co-requisite: CAD 1102

Focuses on basic computer aided drafting skills using the AutoCAD software. Includes file management, Cartesian coordinate system & dynamic input, drawing templates, drawing aids, linetype and lineweights, layer usage, drawing & editing geometric objects, polylines & splines, array, text applications, creating tables, basic dimensioning.

ACC - CAD 1102 COMPUTER AIDED DRAFTING/2D II
6909104 - .5 Practical Arts Credit
3 Credits Arapahoe Community College

Co-requisite: CAD 1101

Focuses on intermediate 2D Computer aided drafting skills using the AutoCAD software. Includes blocks, wblocks & dynamic blocks, hatching, isometric drawings, advanced dimensioning and dimension variables, layouts, paper space and viewports, templates, external references, attributes, raster images, & printing/plotting.

ACC - CAD 2220 REVIT® ARCHITECTURE
69071 - .5 Practical Arts Credit
3 Credits Arapahoe Community College

Pre-req: ???

Introduces students to the AutoDesk Revit Architecture software. Examines the Building Information Modeling approach to 2D and 3D architectural construction documents. Students will create floor plans, elevations, sections, 3D models, perspective renderings and animations with this software application.
Aviation – Pilot

DCSD is partnering with Metro State University to offer students a pathway in aviation where students can earn college credit through dual enrollment and work toward a Professional Flight Officer Concentration. This concentration is designed for those planning a career as a professional pilot or interested in learning more about aviation. Students will get time in professional flight simulators and can compliment course work with independent flight time with local industry partners.

Recommended Learning Sequence

**Fall Semester**

**Year 1**

- MSU AES 1100 Aviation Fundamentals (double-blocked class)

**Spring Semester**

- MSU AES 1710 Instrument Flight Simulation I & MSU AES 1400 Aviation Weather

Students need to register for both classes to be taken concurrently.

**Year 2**

- Tentatively MSU-AES 2120 Instrument Fund I Courses TBD for 2024-2025 SY

- Tentatively MSU-AES 2710 InstFlight Sim II Courses TBD for 2024-2025 SY

Students need to complete their first solo flight (at a local flight training center) to be eligible for AES 2120 & 2710.

Co-curricular & Other Opportunities: TSA
Internship/WorkBased Learning Opportunities: Independent Flight Time
Continuing Education Opportunities: ASCENT, MSU
Aviation - Pilot

**MSU AES 1100 AVIATION FUNDAMENTALS**
69040201 - 1.0 Practical Arts credits/4 Credits Metro State University

Pre-req: none. Course fee: $280 ($80 materials + $50 per MSU credit)

This course presents the fundamentals of aviation for the beginning student which includes a study of the airplane and its components, aerodynamics, basic aircraft systems, the airport environment, air-traffic control procedures, Federal Aviation Regulations, the basic elements of air navigation including radio navigation, and a review of aviation weather.

Industry Certificates: Preparation for the Federal Aviation Administration (FAA) Private Pilot Knowledge examination.

**MSU AES 1710 INSTRUMENT FLIGHT SIMULATION I**
69040203 - .5 Elective credits/3 Credits Metro State University

Pre-req: MSU AES 1100. Co-Requisite: MSU AES 1400. Course fee: $230 ($80 materials + $50 per MSU credit)

The course covers basic flight instruments, radio navigation, aviation weather, aircraft performance, including weight and balance, crew coordination, and aeronautical decision-making. The fundamentals of instrument attitude flight (scanning, interpreting and controlling) are practiced in a flight training device. Radio navigation is introduced and includes both ground-based and satellite-based systems.

**MSU AES 1400 AVIATION WEATHER**
69040202 - .5 Elective credits/3 Credits Metro State University

Pre-req: MSU AES 1100. Co-Requisite: MSU AES 1710. Course: $150 ($50 per MSU Credit)

This course develops basic meteorological concepts that apply to aviation. The emphasis is on the use of National Weather Service reports and forecasts to evaluate flight conditions. The course also prepares students for the weather section of the FAA Private Pilot Knowledge examination.

For more visit: www.legacycampus.org
Culinary & Hospitality

The Culinary and Hospitality Pathway at the Legacy Campus will offer students the ability to gain hands-on skills with first-class industry experience. This is a ProStart program offered through the National Restaurant Association Educational Foundation that will introduce students to culinary arts, restaurant and lodging management, employability skills, and business entrepreneurship.

As students obtain the national ProStart certification, they will complete a 400 - hour guided internship and pass the exams for both ProStart I & II. Upon successful completion of the program, students will earn the nationally recognized ServSafe industry certification as well as opportunities to receive college credits through Metro State University, other industry certifications, and apply for industry scholarships. Students will engage with local restaurants and hotels for mentored internship opportunities and be a part of Legacy’s own student-run cafe.

Recommended Learning Sequence

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Prostart I MSU - RST 1550 Food Fundamentals</td>
<td>Prostart II MSU - RST 2550 Food Preparation</td>
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Students should register for both semesters to participate in ProStart & FCCLA.

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Year 2</th>
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<tbody>
<tr>
<td>Prostart Youth Apprenticeship</td>
<td>DU - Intro to Hospitality Management</td>
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</table>

Students must take ProStart I prior to ProStart II, whether at Legacy Campus or at their home high school. DCSD students must take ProStart I at their home high school (if it is offered there).

Co-curricular & Other Opportunities: ProStart, FCCLA
Internship/WorkBased Learning Opportunities: Legacy Campus Cafe & Catered Events, Restaurant & Hotel Internships
Continuing Education Opportunities: ASCENT, RYRA
Culinary & Hospitality

Students should register for both semesters to participate in ProStart & FCCLA.

LEGACY CAFE INTERNSHIP

The Legacy Campus will have a student-run cafe on-site open during various times of the day. This internship is open to all students, and a great transition for culinary/hospitality, business/marketing, and life skills students!

Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education.

Pre-req: Grades 11 and 12
M/W or T/R
Periods 1, 2, 5

Culinary Internship
(i.e. CTE Food FCS WBL)
79101999 - .5 Elective Credit

Business Internship
(i.e. CTE BAM WBL)
79069999 - .5 Elective Credit

PROSTART I
MSU - RST 1550 FOOD FUNDAMENTALS
69141005 - .5 Practical Arts Credit/3 Credits Metro State University

Pre-req: none Fees: $150+ ($50 per MSU Credit + materials)

The fundamentals of food are explored through visual and sensory analysis. Food identification, selection and sourcing are explored through demonstrations, videos, and kitchen tours of the Hospitality Learning Center. Course activities utilize food and kitchen vocabulary vital to a professional food service manager. The principles of food safety and sanitation and their relationship to the daily operations of food service are integrated throughout the course. ServSafe Food Handler Certification is achieved by each student during this course.

PROSTART II
MSU - RST 2550 FOOD PREPARATION
69101304 - .5 Elective Credit/3 Credits Metro State University

Pre-req: RST 1550 Fees: $150+ ($50 per MSU Credit + materials)

Students build on prior knowledge and skills in the program of study to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education.
Future Educator

Through a partnership with University of Colorado Denver School of Education & Human Development, we are pleased to add a dual enrollment pathway for high school students who want to be future teachers/educators. These courses then transfer into degree programs for early childhood, elementary, or special education pathways. Students will have an opportunity to participate in a field experience and gain up to 24 college credits through UCD.

Courses can be taken together in a sequence over two years, or students can opt into a single course. None of the courses have prerequisites.

### Recommended Learning Sequence

#### Fall Semester

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
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<tbody>
<tr>
<td><strong>UCD EDHD 1930 - Early Education Field Experience</strong></td>
<td><strong>UCD STEM 1000 - STEM Methods</strong></td>
</tr>
<tr>
<td><strong>UCD HDFR 2110 - Child Development</strong></td>
<td><strong>UCD SPED 1030 - Understanding (dis)Ability in Contemporary Classrooms</strong></td>
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#### Spring Semester

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<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
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<tr>
<td><strong>UCD LCRT 2000 - Children’s Literature</strong></td>
<td><strong>UCD INTE 2000 - Digital Teaching and Learning</strong></td>
</tr>
<tr>
<td><strong>UCD CLDE 1000 - Language, Power, &amp; Identity</strong></td>
<td><strong>UCD SPED 1400 - Universal Design for Learning</strong></td>
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</tbody>
</table>
UCD EDHD 1930 - EARLY EDUCATION FIELD EXPERIENCE
6910401 - .5 Elective credit/3 Credits University of Colorado Denver
Prereq: None Course fees: $222 ($74 per UCD credit)
Students learn the dispositions of a community-grounded educator and develop an asset-based lens for working with students, families, and communities through required field experience and a mediated seminar. This course requires the student to be placed at a DCSD elementary school for observation hours. Students will be required to provide their own transportation to and from observation hours.

UCD STEM 1000 - STEM METHODS
6910402 - .5 Elective credit/3 Credits University of Colorado Denver
Prereq: None Course fees: $222 ($74 per UCD credit)
This course provides an overview of STEM practices and philosophies in PK-12 education. STEM trends, foundations of practice, and resources are examined.

UCD LCRT 2000 - CHILDREN'S LITERATURE
6910403 - .5 Elective credit/3 Credits University of Colorado Denver
Prereq: None Course fees: $222 ($74 per UCD credit)
This course explores both classic and contemporary children’s and adolescent literature and media in traditional and digital texts, specifically focusing on developing literary understandings, exploring perspectives and personal responses to literature, and inquiring into trends and issues.

UCD SPED 1400 - UNIVERSAL DESIGN FOR LEARNING
6910404 - .5 Elective credit/3 Credits University of Colorado Denver
Prereq: None Course fees: $222 ($74 per UCD credit)
This course will introduce Universal Design for Learning (UDL), an important, contemporary educational philosophy, with an emphasis in a set of principles & techniques that focus on strategies and tools to help ALL students by accommodating their differences in inclusive classroom settings. Candidates will also be exposed to foundational information about children with disabilities who are included in today’s classroom.

UCD CLDE 1000 - LANGUAGE, POWER, & IDENTITY
6910405 - .5 Elective credit/3 Credits University of Colorado Denver
Prereq: None Course fees: $222 ($74 per UCD credit)
This course explores the relationship between language, identity, and power in various international contexts. This course considers how legacies of inequality for particular communities are reflected in societal attitudes about languages and language users and subsequent language planning.

UCD SPED 1030 - UNDERSTANDING (DIS)ABILITY IN CONTEMPORARY CLASSROOMS
6910406 - .5 Elective credit/3 Credits University of Colorado Denver
Prereq: None Course fees: $222 ($74 per UCD credit)
This course provides an overview of special education by examining the history of special education, construction of dis/ability, characteristics of individuals with disabilities, aspects of disproportionality, and introduction to evidence-based instructional practices.

UCD HDFR 2110 - CHILD DEVELOPMENT
6910407 - .5 Elective credit/3 Credits University of Colorado Denver
Prereq: None Course fees: $222 ($74 per UCD credit)
This course focuses on the study of human growth, development, and ecology from conception to adolescence. The emphasis is on the major theories of child growth and development and the implications of current research findings to better understand child development.

UCD INTE 2000 - DIGITAL TEACHING AND LEARNING
6910408 - .5 Elective credit/3 Credits University of Colorado Denver
Prereq: None Course fees: $222 ($74 per UCD credit)
Survey of technology for: (1) your own learning, informally and in classes; (2) your students’ learning when you become a teacher; and (3) sharing with peers and colleagues. Use tools to address problems of equity, access, and learning needs.
Secure Network Technologies
CISCO Networking & Security, Amazon Cloud Computing

The Secure Network Technologies Pathway will offer students the opportunity to program routers and switches, configure basic cloud computing infrastructure, and implement cybersecurity practices. Students will be able to earn industry certifications in networking, cloud computing, and network security.

Upon Completion of the CNG 1042 course, students can take the AWS (Amazon Web Services) Cloud Practitioner Exam. This is an entry-level exam that would allow students to obtain employment in the cloud computing field. Students can then continue in areas of specialty such as: Solutions Architect, System Ops Administrator, Data Analytics, or Security.

Because the classes are taken concurrently 2-per-semester, classes will require a double-block of time at Legacy Campus.

The following courses are taken concurrently. Students should take CISCO I-III in sequence in order to take the CISCO Certified Network Associate Exam.

**Recommended Learning Sequence**

**Fall Semester**
- ACC CNG 2060 - CISCO Network Associate I &
- ACC CNG 2061 - CISCO Network Associate II

**Spring Semester**
- ACC CNG 2062 - CISCO Network Associate III and ACC CNG 1042 Introduction to Cloud Computing
Secure Network Technologies
CISCO Networking & Security, Amazon Cloud Computing

ACC CNG 2060 – CISCO NETWORK ASSOCIATE I
69062 - 1.0 Elective credit/5 Credits Arapahoe Community College
Introduces network fundamentals, the OSI model and industry standards, IP addressing (subnet masks) and basic network design.

ACC CNG 2061 – CISCO NETWORK ASSOCIATE II
69063 - 1.0 Elective credit/5 Credits Arapahoe Community College
Focuses on router theory and technologies, including router configurations, protocols, network management and introductory LAN switching.

ACC CNG 2062 – CISCO NETWORK ASSOCIATE III
69064 - 1.0 Elective credit/5 Credits Arapahoe Community College
Focuses on advanced routing and switching configurations, LAN switching, network management and advanced network design.

ACC CNG 1042 INTRODUCTION TO CLOUD COMPUTING
690250 - .5 Elective credit/3 Credits Arapahoe Community College
Introduces fundamental content on cloud computing including system analysis, requirements, configuration, deployment, and testing. This course includes information on management, business continuity, security, maintenance, updating, and troubleshooting as related to cloud computing.

Co-curricular & Other Opportunities: TSA
Internship/WorkBased Learning Opportunities: DCSD, Legacy Campus, and local business Internships
Continuing Education Opportunities: ASCENT
Building Controls Technology
Electrical, Mechanical, HVAC Maintenance & Repair

The Building Controls Technology program is a new certificate-based offering through Arapahoe Community College that trains students to install, repair, and maintain a building's computer-controlled mechanical and electrical systems, including its heating, ventilation, and air conditioning (HVAC), and energy management systems. Students will train for exciting hands-on work in a fast-growing career field with courses covering a wide range of topics including basic electricity, industrial wiring, control systems, building materials and green construction techniques. The program is focused on energy efficient practices to maintain healthy, comfortable and productive indoor environments for a sustainable future.

Students will learn skills such as how to:

- Activate valves to maintain required amounts of water in boilers, to adjust supplies of combustion air, and to control the flow of fuel into burners
- Monitor and inspect equipment, computer terminals, switches, valves, gauges, alarms, safety devices, and meters to detect leaks or malfunctions and to ensure that equipment is operating efficiently and safely.
- Check the air quality of ventilation systems and make adjustments to ensure compliance with mandated safety codes.
- Analyze problems and take appropriate action to ensure continuous and reliable operation of equipment and systems.

Please note: some of these classes are offered remotely, some in-person, and some will be in the evenings. This is a new pathway for ACC and the full schedule will be available soon.

Recommended Learning Sequence

**Fall Semester**

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<tr>
<th>Year 1</th>
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<tr>
<td><em>ACC-ELT 1206</em> Fundamentals DC/AC (in person @ Legacy)</td>
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<tr>
<td>AEC 2520 Building Environmental Systems 1 - Remote Real Time with ACC Faculty</td>
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AEC 2520 may be offered in the evening - TBD

**Spring Semester**

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<tr>
<td>ACC-ELT 2254 Industrial Wiring</td>
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<tr>
<td>ACC-ELT 2252 Motors &amp; Controls</td>
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These spring classes may be offered in the evenings - TBD

Future courses include:

- AEC 1520 Construction Materials and Systems
- HVA 2059 Commercial HVAC System
- ENG 1031 Technical Writing
- MAT 1150 Technical Mathematics
- ACC 1039 Budget Management

Typically, year 1 = 11th grade, year 2 = 12th grade, year 3 = ACSENT enrollment
ACC-ELT 1206 FUNDAMENTAL DC/AC
69141002 - 1.0 Elective Credit/4 Credits Arapahoe Community College
Introduces the basic skills needed for many careers in electronics and related fields. Covers the operations and applications of basic DC and AC circuits consisting of resistors, capacitors, inductors, transformers, and diodes. Emphasizes the use of common test instruments in troubleshooting.
Industry certificates: Snap-on multimeter, hand tool & SACA Electrical Systems 1

AEC 2520 BUILDING ENVIRONMENTAL SYSTEMS I
Course # TBD - .5 Elective Credit/3 Credit Arapahoe Community College
Introduces concepts in operation and design of mechanical and sustainable (green) building systems that provide a healthy, comfortable, and productive indoor air environment. Major topics covered include thermal comfort, heat and moisture flow in buildings, indoor air quality, electrical systems pertaining to building function, and mechanical (HVAC and solar thermal) systems for climate in buildings.

ACC-ELT 2252 MOTORS & CONTROLS
69141004 - .5 Elective Credit/3 Credit Arapahoe Community College
Enables the student to study, construct, test, and evaluate basic industrial control systems, including AC/DC motors, stepper motors, power sources, generators, tachometers, line diagrams, and logic functions. Covers safety standards and preventive maintenance.

ACC-ELT 2254 INDUSTRIAL WIRING
69141004 - .5 Elective Credit/3 Credit Arapahoe Community College
Focuses on the required and recommended practice for industrial wiring. The National Electrical Code is applied to industrial power and control wiring. Covers specification and installation of wiring, conduit, enclosures, and termination components in lecture and applied during lab.

FOR MORE VISIT: www.legacycampus.org
Certified Nurse Aide

Through a partnership with ACC and CU, DCSD students will be able to complete their Certified Nurses Aide Certificate. This program will prepare the student for employment as a nurse aide in hospital, home-care, skilled care and hospice facilities. The entry level skills of a nurse aide are an excellent introduction to a broad range of health professions. Basic nursing skills, including activities of daily living, use of assistive devices and recognition of the emotional, social, cultural and individual rights of patients are all competencies that will be covered in the coursework. Successful completion of the Nurse Aide Certificate course at ACC qualifies the student to take the State Certification Examination, also known as the NNAAP exam, to become a Certified Nurse Aide (CNA).

Students will need to able to do clinicals on an occasional evening or weekend and have their own transportation.

Nurse Aide Program Requirements:
- Complete the ACC application for acceptance to college.
- Complete a Criminal Background Check through ACC. View disqualifying events information. (How to order the background check and drug screen through CastleBranch)
- Please note: Criminal background checks require a fee and the applicant's social security number. Should the background check reveal any disqualifying factors or a positive drug screen, the student will be required to drop the program.
- Obtain the required vaccinations
- Please see the full list of requirements and checklist at http://www.arapahoe.edu/departments-and-programs/a-z-programs/nurse-aide on the Nurse Aide Page.

Required Learning Sequence

Fall or Spring Semester

ACC - NUA 1001
Nurse Aide Health Care Skills

and

ACC-NUA 1070
Nurse Aide Clinical Experience

and

ACC-Nua 1071
Advanced Nurse Aide Clinical
Certified Nurse Aide

This pathway is taught by Arapahoe Community College professors at the DCSD Legacy Campus on our compatible schedule so high school students can earn their CNA certificate while in high school. **Students take all courses in this pathway in a sequence during their senior year.** After indicating interest in this pathway, students will begin receiving information directly from the director of the CNA program at ACC so they can begin providing information to the university regarding vaccinations, background check, etc.

Pre-req: none. Students who register for CNA will take ALL classes in one SEMESTER as a 12th grade student. CNA students will need to provide some of their own equipment such as stethoscopes and scrubs. More information will be available from ACC.

**ACC - NUA 1001 NURSE AIDE HEALTH CARE SKILLS**
69610 - 1.0 Elective credit/4 Credits Arapahoe Community College
Prepares the student to perform the fundamental skills of the nurse aide. Basic nursing skills, communication skills, restorative services, personal care skills, safety and emergency care issues are covered. Includes knowledge and/or principles of asepsis, OSHA and HIPAA regulations. Ethical behaviors, cultural sensitivity and principles of mental health will be addressed, as well as patient/resident rights.

**ACC-NUA 1070 NURSE AIDE CLINICAL EXPERIENCE**
69611 - .5 Elective credit/1 Credits Arapahoe Community College
Applies knowledge and skill gained in NUA 1001 to patient care.

**ACC-NUA 1071 ADVANCED NURSE AIDE CLINICAL**
69612 - .5 Elective credit/1 Credits Arapahoe Community College
Prepare the student to move toward more independent functioning within the nurse aide scope of practice, in applying knowledge and skills gained in NUA 1001 and NUA 1070. The student will learn skills that enhance communication, cultural competency, end of life care, critical thinking and organizational skills.
Emergency Medical Technician

Through a partnership with ACC, DCSD students will be able to complete their Emergency Medical Technician Certificate. This 12-credit hour certificate program provides the basic skills to work in an ambulance, apply for firefighting positions, work as an EMT in emergency departments and work ski patrols. Those who complete the sequence will be eligible to take both the National Registry Practical and Written Examinations. EMT Clinical is the course in which the student will complete approximately 24 hours of clinical experiences in emergency departments and on fire rescue and ambulance. Students can earn industry certificates such as CPR certification and Emergency Medical Responder Certification.

Pre-req: none. Students will need to able to do clinicals on an occasional evening or weekend and have their own transportation. EMT students will need to provide some of their own equipment such as stethoscopes. More information will be available from ACC.

Admission Requirements:
- Minimum of 18 years of age prior to the start of the Clinical Rotations (EMS 1070).
- Current American Heart Association Healthcare CPR for the Healthcare Provider (BLS) certificate
- Obtain the required vaccinations
- A Criminal Background Check and Drug Screen is required for all EMS students.

Required Learning Sequence

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>ACC - EMS 1021 EMT Fundamentals AND ACC-EMS 1023 EMT Trauma Emergencies</td>
<td>ACC-EMS 1022 Medical Emergencies AND ACC-EMS 1024 EMT Special considerations</td>
</tr>
</tbody>
</table>

ACC-EMS 1070 EMT CLINICAL

Students will schedule clinicals with ACC faculty at varying times after turning 18 during the course of the year.

Students will take 2 courses at per semester on a double-blocked period all year to complete the EMT sequence.
Emergency Medical Technician

This pathway is taught by Arapahoe Community College professors at the DCSD Legacy Campus on our compatible schedule so high school students can earn their EMT certificate while in high school. **Students take all courses in this pathway in a sequence during their senior year.** After indicating interest in this pathway, students will begin receiving information directly from the director of the EMS program at ACC so they can begin providing information to the university regarding vaccinations, background check, etc.

**Students who register for EMT will take ALL classes in one year as a 12th grade student. EMT students will need to provide some of their own equipment such as stethoscopes and uniform. More information will be available from ACC.**

**Pre-req: none (Recommended: Student turns 18 prior to graduation to do clinicals)**

**ACC - EMS 1021 EMT FUNDAMENTALS**

69901 - .5 Elective credit/3 Credits Arapahoe Community College

Introduces the EMT student to pre-hospital emergency care. The topics included in this course are EMS systems, well-being of the EMT, communications, documentation, anatomy, airway management, and patient assessment.

**ACC-EMS 1022 MEDICAL EMERGENCIES**

69902 - .5 Elective credit/4 Credits Arapahoe Community College

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to effectively provide emergency care and transportation to a patient experiencing a medical emergency. This course focuses on the integration of the physical exam, medical history and pathophysiology when assessing and treating the medical patient.

**ACC-EMS 1023 EMT TRAUMA EMERGENCIES**

69903 - .5 Elective credit/2 Credits Arapahoe Community College

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to provide appropriate emergency care and transportation of a patient who has suffered a traumatic injury. The concepts of kinematics and the biomechanics of trauma, along with pathophysiology and injury patterns will provide the student with the ability to assess and manage the trauma patient.

**ACC-EMS 1024 EMT SPECIAL CONSIDERATIONS**

69904 - .5 Elective credit/2 Credits Arapahoe Community College

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills required to modify the assessment, treatment, and transportation of special patient populations and patients in special circumstances. This course also provides an overview of incident command, mass casualty incidents, vehicle extrication, air medical support, hazardous materials, and terrorism.

**ACC-EMS 1070 EMT CLINICAL**

69905 - .5 Elective credit/1 Credits Arapahoe Community College

Provides the EMT student with the clinical experience required for initial certification and some renewal processes.
Student Registration Process:

- **Counselors** at local high schools will post Legacy Campus course offerings during the school registration timeline.
- **Students** will indicate interest on the district-wide CTE Request Form by February 10, 2023.
- **Legacy Campus staff** will reach out to interested students with a pathway application form AND send a counselor recommendation form to the school counselor to verify eligibility.
- **Students** complete pathway application. AD **counselors** complete recommendation form. Responses are due back to Legacy before March 10, 2023.
- **Legacy Campus staff** will review all student applications and determine placement.
- Once registration is offered, **counselors** will work with Legacy to create a secondary line of enrollment to build the course into the student’s schedule.
- **Schools** are responsible for adjusting student schedules to meet the day/time of the class once the master schedule is developed.
  - A single block class outside the home school will need to be paired with 5 classes at the home school to meet full-time enrollment requirements.
  - A double block class outside of the home school will need to be paired with 4 classes at the home school to meet full time enrollment requirements.

Types of Enrollment:

The following pathways are taught by DCSD in a **concurrent enrollment** model through ACC:
- Architecture
- Advanced Robotics
- Secure Network Technologies
- Building Controls Technology (first few classes)

The following pathways are taught by DCSD in a **dual enrollment** model through either UCD or MSU:
- Aviation - Pilot
- Culinary/Hospitality
- Future Educator

The following pathways are taught by ACC faculty at the DCSD Legacy Campus on the compatible high school schedule in an **@ACC model**:
- CNA
- EMT
- *some additional classes in Building Controls Technology and Advanced Robotics in future years...the current offerings for 2023-2024 will be taught by DCSD faculty*