

Union County Public Schools

Career & Technical Education

Preparing Students for the 21st Century

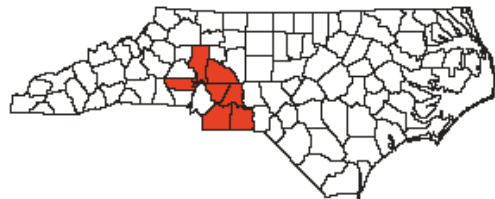


| Industries With Growing Employment ³ | Annual Openings ² |
|--|------------------------------|
| Educational Services | 668 |
| Specialty Trade Contractors | 564 |
| Administrative and Support Services | 511 |
| Ambulatory Health Care Services | 414 |
| Hospitals | 383 |
| Food Services and Drinking Places | 254 |
| General Merchandise Stores | 249 |
| Nursing and Residential Care Facilities | 233 |
| Professional, Scientific, and Technical Services | 226 |
| Management of Companies & Enterprises | 183 |

Source: 3 - LMI Projections Program, 2006-2016

Centralina WDB Area

Anson, Cabarrus, Iredell, Lincoln, Rowan, Stanly
& Union Counties



Employment Security Commission of North Carolina

Labor Market Information Division
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The cost of printing this document is 20 cents per copy.

Centralina Workforce Development Board

Long-Term Occupational Projections 2006 - 2016

Long-Term Occupational Projections produced by the Labor Market Information Division of the Employment Security Commission of North Carolina provide relevant information used by job seekers, counselors, employers, education planners and economic developers.

For detailed information, go to: www.ncesc.com and select Labor Market Information to access:

- NC Occupational and Industry Projections:** Complete reports for NC Statewide and the 24 Workforce Development Board areas. Under **Occupational Information**, select [NC Occupational Projections](#) or under **Industry Information**, select [NC Industry Projections](#).
- Occupation Descriptions:** Job tasks, work activities, needed skills and abilities for specific occupations. Under **Information Access Tools**, select [O*NET](#) then [Find Occupations](#).
- Video Briefs of Occupations:** Closed captioned videos that describe many occupations. Under **Career Management Tools**, select [NC Career Resources](#).



Labor Market Information Division
EMPLOYMENT SECURITY COMMISSION
OF NORTH CAROLINA

Centralina WDB Area Occupational Projections 2006-2016

| Bachelor's Degree Growing Occupations ¹ | Annual Openings ² | Associates Degree Growing Occupations ¹ | Annual Openings ² | Vocational Training Growing Occupations ¹ | Annual Openings ² |
|--|------------------------------|---|------------------------------|--|------------------------------|
| Elementary School Teachers, Except Special Education \$38,136 | 1,323 | Registered Nurses \$54,283 | 2,881 | Automotive Service Technicians & Mechanics \$34,960 | 1,184 |
| Business Operations Specialists, All Other \$46,193 | 851 | Computer Support Specialists \$40,337 | 447 | Nursing Aides, Orderlies & Attendants \$23,043 | 675 |
| Secondary School Teachers, Except Special & Vocational Education \$40,777 | 747 | Radiologic Technologists & Technicians \$48,287 | 188 | Preschool Teachers, Except Special Education \$19,636 | 595 |
| Accountants & Auditors \$50,830 | 712 | Medical Records & Health Information Technicians \$27,047 | 179 | Licensed Practical & Licensed Vocational Nurses \$38,186 | 536 |
| Middle School Teachers, Except Special & Vocational Education \$38,669 | 697 | Dental Hygienists \$57,204 | 169 | Welders, Cutters, Solderers & Brazers \$32,617 | 535 |
| Construction Managers \$63,818 | 587 | Medical & Clinical Laboratory Technicians \$30,123 | 130 | Fitness Trainers & Aerobics Instructors \$21,292 | 383 |
| Teachers and Instructors, All Other \$23,503 | 484 | Life, Physical & Social Science Technicians, All Other \$31,763 | 124 | Bus and Truck Mechanics & Diesel Engine Specialists \$37,346 | 289 |
| Computer Systems Analysts \$61,512 | 478 | Paralegals & Legal Assistants \$36,006 | 121 | Hairdressers, Hairstylists & Cosmetologists \$16,794 | 283 |
| Computer Software Engineers, Applications \$60,607 | 327 | Respiratory Therapists \$47,923 | 116 | Emergency Medical Technicians & Paramedics \$28,415 | 202 |
| Special Education Teachers, Preschool, Kindergarten & Elementary School \$41,495 | 308 | Physical Therapist Assistants \$44,015 | 75 | Real Estate Sales Agents \$35,087 | 188 |
| Industrial Engineers \$62,730 | 307 | Veterinary Technologists & Technicians \$27,905 | 66 | Library Technicians \$28,262 | 144 |
| Child, Family & School Social Workers \$41,337 | 295 | Legal Secretaries \$31,401 | 62 | Surgical Technologists \$35,592 | 134 |
| Network Systems & Data Communications Analysts \$50,585 | 255 | Industrial Engineering Technicians \$36,685 | 62 | Aircraft Mechanics & Service Technicians \$39,107 | 129 |
| Cost Estimators \$52,594 | 246 | Computer Specialists, All Other \$73,965 | 59 | Computer, Automated Teller & Office Machine Repairers \$32,440 | 114 |

Sources: 1-Occupational Employment and Wages (OES) program survey. NOTE: Wages provided represent the median annual wage, which is the midpoint between the highest paid 50% and the lowest paid 50% of workers in that occupation.
 2-LMI Projections Program: 2006-2016 job growth and replacement (total openings) for occupational and industrial employment.

The occupational projections presented in this brochure were produced by analysts in the Labor Market Information Division of the Employment Security Commission of North Carolina. Guidelines and procedures defined by the U.S. Department of Labor's (DOL) Bureau of Labor Statistics (BLS) are used to ensure consistency in gathering and disseminating industry and occupational projections. Analysts use industrial staffing patterns data to review historical trends and to predict future employment growth or decline of an occupation within a geographical area. The accuracy of projections for individual occupations can be affected by unforeseen events occurring in the economy over the 10-year projection period; therefore, these projections should not be used as a sole source of decision-making information.



Resources

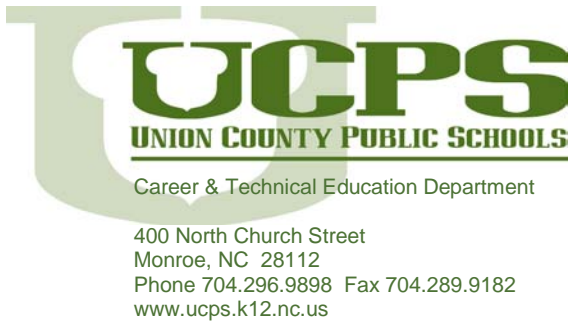
- U.S. Bureau of Labor Statistics
- North Carolina Employment Security Commission
- North Carolina Career Outlook
- North Carolina 2006-2016 Labor Projections
- Union County Chamber of Commerce
- College Board

http://www.collegeboard.com/csearch/majors_careers/profiles/

- Fastest Growing Occupations for Region

<http://www.centralinaworks.com/Website/documents/HOT50-CentralinaWDBPoster2.pdf>





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Dear Parents, Students, Counselors, Teachers, and Administrators:

The Union County Public Schools' Career & Technical Education Department is proud to present the following guide on Career Clusters. The following clusters were chosen based on the North Carolina Labor Projections and the Labor Market Index (LMI) for the Centralina region, which includes the following counties: Anson, Cabarrus, Gaston, Iredell, Rowan, Stanley, and Union. Career Clusters specific to the workforce needs of Union County were selected in the following seven areas: Agriculture, Food & Natural Resources; Architecture & Construction; Arts, A/V Technology & Communications; Health & Human Services; Business Management, Finance & Administration; Information Technology; Science, Technology, Engineering, Mathematics & Manufacturing (STEM).

Three sub-committees of Career & Technical Education (CTE) teachers from every program area developed career majors within each cluster that met the following criteria:

- High Wage, High Demand, or High Skill
- Financial Literacy
- Articulated and/or Dual Credits with Community Colleges or Universities
- Business and Industry Credentials
- Alignment with North Carolina Future Ready Standards
- Global Awareness
- Work-based Learning Opportunities
- 9th – 12th Grade Courses – Minimum of 1 Second Level Course
- Career Technical Student Organizations (CTSO)


It is our hope that this guide will serve to better prepare our students for a successful future. The first goal of the UCPS CTE Department is to communicate available student opportunities to all stakeholders: students, parents, counselors, teachers, administrators and community members. Our second goal is to offer cutting edge programs that will prepare our students to compete as global leaders.

Sincerely,

Lorraine Collins, Ed.D.
Director of Career & Technical Education

Growing Possibilities...



| | |
|---|---|
|  | Career Major: Automotive Technology |
| | Central Academy of Technology & Arts |

Career Options: Automotive Business Manager, Automotive Engineer, Motor Sports Consultant, Automotive Service Technicians and Mechanics, Automotive & Collision Instructor, Insurance Collision Repair Adjuster
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------|-------------------------------|--|--|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I |
| | | Career Path Courses: | Introduction to Transportation AND Principles of Business & Finance | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Electronics I, Computer Engineering Technology I |
| | | Career Path Courses: | Automotive Technology I AND/OR Collision Repair I | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Electronics II, Computer Engineering Technology II |
| | | Career Path Courses: | Automotive Technology II AND/OR Collision Repair II | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Motor Sports, Introduction to Engineering Design |
| | | Career Path Courses: | Automotive Technology III AND/OR Collision Repair III (Trade & Industrial Advance Studies) | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|---|
| UCPS Recognition for Advanced Learning | Postsecondary Community College Credit Options: Articulated Community College Credit Available: AUT 110 Intro to Automotive Technology AUT 151 Brake Systems AUT 161 Electrical Systems BUS 125 Personal Finance *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): NATEF certification exam (Steering and Suspension ,Brakes ,Electrical systems, Engine Performance) |

| Postsecondary Programs Available | |
|--|--|
| Postsecondary Education Opportunities | Certificate Automotive Systems Technology Diploma Performance Motor Sports Certificate Performance Motor Machining Certificate |
| | Associate Degree Automotive Systems Technology (AAS) Automotive Service Technology (AAS) |
| | Bachelor Degree Automotive Engineering (BS) Automotive Technology Management (BS) |
| | Graduate Degree Automotive Engineering (MS), (PhD) |

Cluster Overview: The **Science, Technology, Engineering and Math Career Cluster** prepares students in planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.


Extended Learning Experiences

Curricular Experiences:
Skills USA

Work-Based Learning Experiences:

Job Shadowing Opportunities
Internships

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.

| | |
|---|---|
|  | Career Major: Project Lead the Way Engineering |
| | Central Academy of Technology & Arts |

Career Options: Electrical Engineering, Electronics Engineering, Mechanical Engineering, Civil Engineering, Aerospace Engineering, Mechanical Engineering
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

| Suggested High School Courses | | | | |
|---|------------------------|-------------------------------|--|--|
| High School *Future Ready Example | 9th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I, Drafting I |
| | | Career Path Courses: | Principles of Business & Finance AND Honors Introduction to Engineering Design | |
| | 10th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Electronics I, Computer Engineering Technology I |
| | | Career Path Courses: | Honors Digital Electronics AND Honors Principles of Engineering | |
| | 11th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Electronics II, Computer Engineering Technology II |
| | | Career Path Courses: | Aerospace Engineering | |
| | 12th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Computer Integrated Manufacturing |
| | | Career Path Courses: | Engineering Design & Development | |

| Secondary to Postsecondary Linkages & Certifications | |
|--|--|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Electronics I = ETC 112 DC/AC Electricity Principles of Business & Finance=BUS 125 Personal Finance Articulated University College Credit Available: Project Lead the Way's participating colleges and universities at www.pltw.org . *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): |

| Postsecondary Programs Available | | |
|--|-------------------------|---|
| Postsecondary Education Opportunities | Certificate | Architectural Technology Certificate with a Specialization in Computer Aided Design/Drafting Architectural Technology Certificate with a Specialization in Residential Architectural Technology |
| | Associate Degree | Civil Engineering Technology (AAS) Electronics Engineering Technology (AAS) |
| | Bachelor Degree | Civil Engineering (BS) Aerospace Engineering (BS) Electrical Engineering (BS) Mechanical Engineering (BS) Environmental Engineering (BS) Industrial Engineering (BS) Material Engineering (BS) Engineering Management (BS) |
| | Graduate Degree | Civil Engineering (MS) Industrial Engineering (MS) Material Engineering (MS) Mechanical Engineering (MS) Aerospace Engineering (MS) Electrical Engineering (MS) Engineering Management (MS) Environmental Engineering (MS) |

Cluster Overview: The **Science, Technology, Engineering and Math Career Cluster** prepares students in planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

Extended Learning Experiences


Curricular Experiences:

Skills USA

Work-Based Learning Experiences:

Job Shadowing Opportunities
Internships

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| | |
|---|---|
|  | Career Major: Project Lead the Way Engineering |
| | Forest Hills High |

Career Options: Electrical Engineering, Electronics Engineering, Mechanical Engineering, Civil Engineering, Aerospace Engineering, Mechanical Engineering
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I, Fundamentals of Technology |
| | | Career Path Courses: | Principles of Business & Finance AND Honors Introduction to Engineering Design | |
| | 10th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Drafting I |
| | | Career Path Courses: | Honors Digital Electronics AND Honors Principles of Engineering | |
| | 11th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Drafting II Engineering |
| | | Career Path Courses: | Honors Computer Integrated Manufacturing Engineering | |
| | 12th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Trade & Industrial Advance Studies, Drafting III Engineering |
| | | Career Path Courses: | Honors Engineering Design & Development | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|--|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Electronics I = ETC 112 DC/AC Electricity Principles of Business & Finance=BUS 125 Personal Finance Articulated University College Credit Available: Project Lead the Way participating colleges and universities at www.pltw.org . *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): |

| Postsecondary Programs Available | | |
|--|-------------------------|---|
| Postsecondary Education Opportunities | Certificate | Architectural Technology Certificate with a Specialization in Computer Aided Design/Drafting Architectural Technology Certificate with a Specialization in Residential Architectural Technology |
| | Associate Degree | Civil Engineering Technology (AAS) Electronics Engineering Technology (AAS) |
| | Bachelor Degree | Civil Engineering (BS) Aerospace Engineering (BS) Electrical Engineering (BS) Mechanical Engineering (BS) Environmental Engineering (BS) Industrial Engineering (BS) Material Engineering (BS) Engineering Management (BS) |
| | Graduate Degree | Civil Engineering (MS) Industrial Engineering (MS) Material Engineering (MS) Mechanical Engineering (MS) Aerospace Engineering (MS) Electrical Engineering (MS) Engineering Management (MS) Environmental Engineering (MS) |

Cluster Overview: The **Science, Technology, Engineering and Math Career Cluster** prepares students in planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

Extended Learning Experiences


Curricular Experiences:

Skills USA

Work-Based Learning Experiences:

Job Shadowing Opportunities
Internships

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| | |
|---|---|
|  | Career Major: Project Lead the Way Engineering |
| | Monroe High |

Career Options: Electrical Engineering, Electronics Engineering, Mechanical Engineering, Civil Engineering, Aerospace Engineering, Mechanical Engineering
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

| Suggested High School Courses | | | | |
|---|------------------------|-------------------------------|--|--|
| High School *Future Ready Example | 9th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I and Fundamentals of Technology |
| | | Career Path Courses: | Principles of Business & Finance AND Honors Introduction to Engineering Design | |
| | 10th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I and Drafting I |
| | | Career Path Courses: | Honors Digital Electronics AND Honors Principles of Engineering | |
| | 11th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Drafting II Architecture |
| | | Career Path Courses: | Honors Civil Engineering & Architecture | |
| | 12th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Trade & Industrial Advance Studies, Drafting III Architecture |
| | | Career Path Courses: | Honors Engineering Design & Development | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|--|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Electronics I = ETC 112 DC/AC Electricity Principles of Business & Finance=BUS 125 Personal Finance Articulated University College Credit Available: Project Lead the Way participating colleges and universities at www.pltw.org . *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): |

| Postsecondary Programs Available | | |
|--|-------------------------|---|
| Postsecondary Education Opportunities | Certificate | Architectural Technology Certificate with a Specialization in Computer Aided Design/Drafting Architectural Technology Certificate with a Specialization in Residential Architectural Technology |
| | Associate Degree | Civil Engineering Technology (AAS) Electronics Engineering Technology (AAS) |
| | Bachelor Degree | Civil Engineering (BS) Aerospace Engineering (BS) Electrical Engineering (BS) Mechanical Engineering (BS) Environmental Engineering (BS) Industrial Engineering (BS) Material Engineering (BS) Engineering Management (BS) |
| | Graduate Degree | Civil Engineering (MS) Industrial Engineering (MS) Material Engineering (MS) Mechanical Engineering (MS) Aerospace Engineering (MS) Electrical Engineering (MS) Engineering Management (MS) Environmental Engineering (MS) |

Cluster Overview: The **Science, Technology, Engineering and Math Career Cluster** prepares students in planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

Extended Learning Experiences

Curricular Experiences:

Skills USA

Work-Based Learning Experiences:

Job Shadowing Opportunities
Internships

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Career Major: Architecture Technologies

MONROE HIGH SCHOOL ONLY

Career Options: Architect Engineer, Civil Engineer, Engineer Model Maker, Construction Engineer, Material Analyst, and Project Engineer. For more options visit the US Bureau of Labor Statistics at www.bls.gov/oco.

Suggested High School Courses

| | | | | |
|---|------------------|--------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses*: | English I, Algebra I, Earth or Environmental Science, World History, Health and Physical Education | Recommended Enhancement Courses: Computer Applications I, Ag Mechanics I |
| | | Career Path Courses: | Introduction to Trade & Industrial Education | |
| | 10 th | Core Academic Courses*: | English II, Geometry, Biology, Civic and Economics | Recommended Enhancement Courses: Foreign Language I, Housing and Interiors I, Ag Mechanics II |
| | | Career Path Courses: | Drafting I-Architectural | |
| | 11 th | Core Academic Courses*: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Housing & Interiors II |
| | | Career Path Courses: | Drafting II-Architectural AND Personal Finance | |
| | 12 th | Core Academic Courses*: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Small Business Entrepreneurship |
| | | Career Path Courses: | Drafting III-Architectural | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|---|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Drafting I Architectural AND Drafting II Architectural = DFT 151 CAD I Drafting II Architectural AND Drafting III Architectural = ID 105 Basic Drafting Computer Applications I = CIS 111 Basic PC Literacy OR CIS 113 Computer Basics AND OST 136 Word Processing Small Business Entrepreneurship = BUS Small Business Management Agricultural Mechanics I = MNT110 Intro to Maintenance Processes Agricultural Mechanics II = WLD112 Basic Welding Processes *Please see your local school guidance counselor for additional college credit opportunities. |
| | Industry Recognized Certificate(s) or License(s): CareerSafe OSHA Certification |

Career & Technical Education is delivered through the Union County Public Schools.

www.cte.ucps.k12.nc.us

| Postsecondary Programs Available | | |
|---------------------------------------|---------------------|---|
| Postsecondary Education Opportunities | Certificate/Diploma | Architectural Technology Certificate with a Specialization Computer Aided Design/Drafting or Residential Architectural Technology Civil Engineering Technology with a Specialization in Project Supervision Pre-Architecture Diploma Mechanical Drafting Technology Computer Diploma |
| | Associate Degree | Architectural Technology (AAS) Civil Engineering Technology (AAS) |
| | Bachelor Degree | Architectural Engineering (BS) Civil Engineering (BS) |
| | Graduate Degree | Civil Engineering (MS, PhD) Architectural Engineering (MS, PhD) |

Cluster Overview: The **Architecture and Construction Career Cluster** prepares students for careers in designing, planning, managing, building and maintaining the built environment.

Extended Learning Experiences

Curricular Experiences:

Skills USA
National FFA
Family, Career & Community Leaders of America (FCCLA)

Work-Based Learning Experiences:

Job Shadowing
Agricultural Cooperative Education (Summers Only)

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Career & Technical Education is delivered through the Union County Public Schools.

www.cte.ucps.k12.nc.us



Career Major: Construction Technology

Monroe High School ONLY

Career Options: Brick mason, block mason, carpenter, electrician, plumber, construction manager, construction laborer, cement mason, concrete finisher, HVAC, painters, roofers,
For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Introduction to Trade and Industrial Education, Computer Applications I, Masonry I, Drafting |
| | | Career Path Courses: | Construction Technology I | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Housing and Interiors I, Agricultural Mechanics I, Masonry II |
| | | Career Path Courses: | Construction Technology II | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Housing and Interiors II, Agricultural Mechanics II, Agriculture Cooperative Education (Summers Only) |
| | | Career Path Courses: | Construction Technology III AND Personal Finance | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Masonry III, Agriculture Advanced Studies |
| | | Career Path Courses: | Small Business Entrepreneurship | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|--|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Small Business and Entrepreneurship= BUS 230 Small Business Management; Construction Technology I and II=CAR 110 Introduction to Carpentry Computer Applications I =CIS 111 or CIS 113 Computer Basics *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): NCCER National Certification |

| Postsecondary Programs Available | | |
|--|-------------------------|--|
| Postsecondary Education Opportunities | Certificate | Electrical Contractor Certification Building Contractor Certification Building Inspector Certification Air Conditioning, Heating, and Refrigeration Certification Architectural Technology Certificate Civil Engineering Technology Certificate |
| | Associate Degree | Architectural Technology (AAS) Civil Engineering Technology (AAS) Construction Management Technology (AAS) |
| | Bachelor Degree | ARCHITECTURAL ENGINEERING (BS) |
| | Graduate Degree | |

Cluster Overview: The **Architecture and Construction Career Cluster** prepares students for careers in designing, planning, managing, building and maintaining the built environment.

Extended Learning Experiences

Curricular Experiences:

SKILLS USA
National FFA
Future Business Leaders of America (FBLA)

Work-Based Learning Experiences:

Job Shadowing Opportunities

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Heating, Ventilation, & Air Conditioning Technologies

Parkwood and Monroe High Schools Only

Career Options: Construction Manager, Project Manager, Electrician, Plumber, HVAC Professional
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------|-------------------------------|--|--|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I, Agriculture Mechanics I, Drafting |
| | | Career Path Courses: | Introduction to Trade & Industrial Education | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Housing & Interiors I, Agriculture Mechanics II |
| | | Career Path Courses: | Air Conditioning and Refrigeration I | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Housing and Interiors II |
| | | Career Path Courses: | Air Conditioning and Refrigeration II AND Personal Finance | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Small Business Entrepreneurship |
| | | Career Path Courses: | Air Conditioning and Refrigeration III | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|--|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Small Business Entrepreneurship= BUS 230 Small Business Management Computer App I =CIS 111 or CIS 113 Computer Basics *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): HVAC Certification CareerSafe OSHA Certification NCCER National Certification |

| Postsecondary Programs Available | | |
|--|-------------------------|--|
| Postsecondary Education Opportunities | Certificate | Electrical Contractor Certification Building Contractor Certification Building Inspector Certification HVAC Certification |
| | Associate Degree | Heating, Air Conditioning & Refrigeration Technology (AAS) Construction Management Technology (AAS) |
| | Bachelor Degree | Electronics Engineering (BS) Wireless Systems (BS) Heating, Air Conditioning & Refrigeration Technology (BS) |
| | Graduate Degree | |

Cluster Overview: The **Architecture and Construction Career Cluster** prepares students for careers in designing, planning, managing, building and maintaining the built environment.

Extended Learning Experiences

Curricular Experiences:

SKILLS USA
Future Business Leaders of America (FBLA)

Work-Based Learning Experiences:

Job Shadowing Opportunities

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Interior Design

Career Options: Architect, Interior Designer, Interior Decorator, Draftsman, Real Estate Agent, Art Educator
 For more options visit the US Bureau of Labor Statistics at www.bls.gov/oco.

Suggested High School Courses

| | | | | |
|---|------------------|--------------------------------|--|--|
| High School *Future Ready Example | 9 th | Core Academic Courses*: | English I, Algebra I, Earth or Environmental Science, World History, Health and Physical Education | Recommended Enhancement Courses: Visual Arts I, Computer Applications I |
| | | Career Path Courses: | Teen Living | |
| | 10 th | Core Academic Courses*: | English II, Geometry, Biology, Civic and Economics | Recommended Enhancement Courses: Foreign Language I, Fashion Merchandising, Drafting I |
| | | Career Path Courses: | Apparel Development I AND Principles of Business & Finance | |
| | 11 th | Core Academic Courses*: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Apparel Development II |
| | | Career Path Courses: | House & Interiors I AND Business Law | |
| | 12 th | Core Academic Courses*: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: FACS Advanced Studies |
| | | Career Path Courses: | Housing & Interiors II AND Small Business Entrepreneurship | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|---|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available : Computer Applications I = CIS 111 Basic PC Literacy OR CIS 113 Computer Basics AND OST 136 Word Processing Principles of Business & Personal Finance = BUS 125 Personal Finance Small Business Entrepreneurship = BUS Small Business Management Apparel Development I, Apparel Development II AND Fashion Merchandising = FM121 Fashion Industry Survey (Art Institute) *Please see your local school guidance counselor for additional college credit opportunities. |
| | Industry Recognized Certificate(s) or License(s): N/A |

Career & Technical Education is delivered through the Union County Public Schools.

www.cte.ucps.k12.nc.us

| Postsecondary Programs Available | | |
|---------------------------------------|---------------------|--|
| Postsecondary Education Opportunities | Certificate/Diploma | Architectural Technology Certificate with a Specialization in computer Aided Design (CAD) or Residential Architectural Pre-architect Diploma Residential Interior Decoration Diploma |
| | Associate Degree | Architectural Technology (AAS) Construction Management Technology (AAS) Interior Design (AAS) |
| | Bachelor Degree | Architecture (BA, BS) Apparel Merchandising (BS) Textiles (BS) Interior Design (BS) |
| | Graduate Degree | Architecture (MS, PhD) Interior design (PhD) Textiles Design (PhD) |

Cluster Overview: The **Architecture and Construction Career Cluster** prepares students for careers in designing, planning, managing, building and maintaining the built environment.

Extended Learning Experiences

Curricular Experiences:

Family, Career and Community Leaders of America (FCCLA)
Future Business Leaders of America (FBLA)
Skills USA

Work-Based Learning Experiences:

Job Shadowing

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.

Career & Technical Education is delivered through the Union County Public Schools.

www.cte.ucps.k12.nc.us



Career Major: Masonry Technology

Monroe High School ONLY

Career Options: Paraprofessional Mason, Construction Manager, Masonry Specialist, Masonry Restoration Specialist, Masonry Project Estimator, Project Manager, Masonry Superintendent

For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Introduction to Trade and Industrial Education, Computer Applications I, Construction Technology I, Drafting |
| | | Career Path Courses: | Masonry I | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Housing and Interiors I, Agricultural Mechanics I, Construction Technology II |
| | | Career Path Courses: | Masonry II | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Housing and Interiors II, Agricultural Mechanics II, Agriculture Cooperative Education (Summers Only) |
| | | Career Path Courses: | Masonry III AND Personal Finance | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Construction Technology III, Agriculture Advanced Studies |
| | | Career Path Courses: | Small Business Entrepreneurship | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|---|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Small Business and Entrepreneurship= BUS 230 Small Business Management Construction Technology I and II=CAR 110 Introduction to Carpentry Computer Applications I =CIS 111 or CIS 113 Computer Basics *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): NCCER National Certification |

| Postsecondary Programs Available | | |
|---------------------------------------|------------------|--|
| Postsecondary Education Opportunities | Certificate | Electrical Contractor Certification Building Contractor Certification Building Inspector Certification Air Conditioning, Heating, and Refrigeration Certification Architectural Technology Certificate Civil Engineering Technology Certificate |
| | Associate Degree | Architectural Technology (AAS) Civil Engineering Technology (AAS) Construction Management Technology (AAS) |
| | Bachelor Degree | ARCHITECTURAL ENGINEERING (BS) |
| | Graduate Degree | |

Cluster Overview: The **Architecture and Construction Career Cluster** prepares students for careers in designing, planning, managing, building and maintaining the built environment.

Extended Learning Experiences

Curricular Experiences:

SKILLS USA
National FFA
Future Business Leaders of America (FBLA)

Work-Based Learning Experiences:

Job Shadowing Opportunities

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



| | | | |
|---|---|--|--|
|  | Career Major: Fashion Design and Merchandising | | |
| | | | |

Career Options: Fashion Designer, Sketch Artist, Commercial and Industrial Designer, Visual Merchandising, and Textile Buyer. For more options visit the US Bureau of Labor Statistics at www.bls.gov/oco .

Suggested High School Courses

| | | | | |
|---|------------------|--------------------------------|--|--|
| High School *Future Ready Example | 9 th | Core Academic Courses*: | English I, Algebra I, Earth or Environmental Science, World History, Health and Physical Education | Recommended Enhancement Courses: Computer Applications I |
| | | Career Path Courses: | Teen Living | |
| | 10 th | Core Academic Courses*: | English II, Geometry, Biology, Civic and Economics | Recommended Enhancement Courses: Visual Art I, Foreign Language I |
| | | Career Path Courses: | Fashion Merchandising AND Principles of Business & Finance | |
| | 11 th | Core Academic Courses*: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Housing I, Foreign Language II, Chemistry, Drafting I |
| | | Career Path Courses: | Apparel Development I AND International Marketing | |
| | 12 th | Core Academic Courses*: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: FACS Advanced Studies, Marketing |
| | | Career Path Courses: | Apparel Development II AND Small Business Entrepreneurship | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|---|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available : Apparel Development I AND Apparel Development II AND Fashion Merchandising = FM 121 Fashion Industry Survey Computer Applications I = CIS 111 Basic PC Literacy OR CIS 113 Computer Basics AND OST 136 Word Processing Principles of Business and Personal Finance = BUS 125 Personal Finance Small Business Entrepreneurship = BUS Small Business Management *Please see your local school guidance counselor for additional college credit opportunities. |
| | Industry Recognized Certificate(s) or License(s): N/A |

Career & Technical Education is delivered through the Union County Public Schools.
www.cte.ucps.k12.nc.us

| Postsecondary Programs Available | | |
|---------------------------------------|---------------------|---|
| Postsecondary Education Opportunities | Certificate/Diploma | Graphic Arts and Imaging Design Certificate Accessory Design Certificate National Society of Interior Designers (NSID) |
| | Associate Degree | Graphic Arts (AAS) Art and Design Technology (AAS) Fashion Design and Retail Management (AAS) |
| | Bachelor Degree | Fashion Design and Merchandising (BS, BFA) Textiles (BS) Family and Consumer Sciences (BS) |
| | Graduate Degree | Fashion Design and Merchandising (MS) Textiles (MS, PhD) Textiles Technology (PhD) Family and Consumer Sciences (MAT, MS, PhD) |

Cluster Overview: The **Arts, AV Technology and Communication Career Cluster** prepares students for careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Extended Learning Experiences

Curricular Experiences:

DECA
Family, Career and Community Leaders of America (FCCLA)
Future Business Leaders of America (FBLA)


Work-Based Learning Experiences:

Job Shadowing
Marketing Cooperative Education

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.

Career & Technical Education is delivered through the Union County Public Schools.

www.cte.ucps.k12.nc.us

| | |
|---|--|
|  | Career Major: Film Production |
| | *SUN VALLEY, PIEDMONT, PARKWOOD, PORTER RIDGE & MARVIN RIDGE HIGH SCHOOLS ONLY* |

Career Options: Cinematographers, Computer Animator, Film Maker/Editor, Sound Engineer, Special Effects Artist, etc.
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------------|-------------------------------|--|--|
| High School *Future Ready Example | 9th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I OR Visual Arts I |
| | | Career Path Courses: | Computer Applications I OR Visual Arts I | |
| | 10th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Computer Applications II, Marketing, Visual Arts II |
| | | Career Path Courses: | Film Production Studio I AND Principles of Business & Finance | |
| | 11th | Core Academic Courses: | English III, Algebra II or Integrated Math III, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, eCommerce I Honors, Personal Finance |
| | | Career Path Courses: | Film Production Studio II | |
| | 12th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: eCommerce II Honors, Small Business Entrepreneurship |
| | | Career Path Courses: | Business Advanced Studies | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|---|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Computer Applications II = OST137 Office Software Applications OR CIS169/CTS 125 Business Presentations AND CIS172/WEB110 Intro to the Internet OR CIS165/OST233 Desktop Publishing I Principles of Business & Personal Finance = BUS125 Personal Finance eCommerce I = CIS172/WEB110 Introduction to the Internet eCommerce II = ITN160/WEB210 Web Design Small Business Entrepreneurship = BUS Small Business Management *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s): Apple Pro Applications Certifications for Final Cut, Soundtrack Pro, and Motion |

Postsecondary Programs Available

| | | |
|--|-------------------------|--|
| Postsecondary Education Opportunities | Certificate | Apple Pro Applications Certificates in Final Cut, Soundtrack Pro, and Motion Multimedia Design Certificate Video Game Design Certificate |
| | Associate Degree | Advertising and Graphic Design (AAS) Graphic Arts and Imaging Technology (AAS) Computer Information Systems (AS) |



| | |
|-----------------|---|
| Bachelor Degree | Graphic Design (BA) Multimedia (BA) Computer Science (BS) |
| Graduate Degree | Masters and Doctorate programs available in Computer Science |

Cluster Overview: The **Arts, AV Technology and Communication Career Cluster** prepares students for careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Extended Learning Experiences


Curricular Experiences:

Future Business Leaders of America (FBLA)
National Art Honor Society (NAHS)

Work-Based Learning Experiences:

Job Shadowing Opportunities
Marketing Cooperative Education

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.

| | |
|---|---------------------------------------|
|  | Career Major: Public Relations |
| | |

Career Options: Public Information Officer, Public Relations Officer, Customer Service, Advertising Representative
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

| Suggested High School Courses | | | | |
|---|------------------------|-------------------------------|---|---|
| High School *Future Ready Example | 9th | Core Academic Courses: | English I, Algebra I or Integrated Math I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Foreign Language I, Creative Writing, Career Management |
| | | Career Path Courses: | Computer Applications I AND Speech | |
| | 10th | Core Academic Courses: | English II, Geometry or Integrated Math II, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language II, Speech and Debate, Computer Applications II |
| | | Career Path Courses: | Principles of Business & Finance AND Marketing | |
| | 11th | Core Academic Courses: | English III, Algebra II or Integrated Math III, Physical Science, US History | Recommended Enhancement Courses: Foreign Language III, Travel & Tourism Marketing |
| | | Career Path Courses: | International Marketing AND Journalism I | |
| | 12th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Foreign Language IV, Journalism II, Business Advanced Studies |
| | | Career Path Courses: | Small Business Entrepreneurship AND Marketing Management | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|---|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Comp Apps I = CIS 111 Basic PC Literacy OR CIS 113 Computer Basics AND OST 136 Word Processing. Comp Apps II = OST 137 Office Software Applications OR CIS 169/CTS 125 Business Presentations AND CIS 172/WEB 110 Intro to the Internet OR CIS 165/OST 233 Desktop Publishing I. Principles of Business and Personal Finance = BUS 125 Personal Finance Small Business Entrepreneurship = BUS Small Business Management Marketing AND Marketing Management = MKT 12 Principles of Marketing Business & Electronic Communications = BUS 260 Business Communications *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): Internet and Computing Core Certification |

Postsecondary Programs Available

| | | |
|--|-------------------------|---|
| Postsecondary Education Opportunities | Certificate | Certificate in International Public Relations |
| | Associate Degree | Associate of Business Science (ABS): Communications and Public Relations Degree |

| | |
|--------------------|---|
| Bachelor Degree | Communication Studies (BA) Health Communication (BA) Organizational Communication (BA) Public Relations and Public Advocacy (BA) |
| Graduate Degree | Communication Studies (MA) |

Cluster Overview: The **Arts, AV Technology and Communication Career Cluster** prepares students for careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Extended Learning Experiences

Curricular Experiences:

DECA
Future Business Leaders of America (FBLA)

Work-Based Learning Experiences:

Job Shadowing Opportunities
 Marketing Cooperative Education

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.





Career Major: Accounting

Career Options: Public Accountant, Internal Auditor, Forensic Accountant, Tax Accountant, Governmental Accountant, Controller, Accounting Manager, Cost Managerial Accountant, Accounting Clerk, Budget analyst, Financial Analyst, Personal Financial Planner, Tax Preparation Specialist, Government Tax Examiners and Revenue Agents
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|--------------------------------------|------------------|-------------------------------|--|--|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Application I |
| | | Career Path Courses: | Principles of Business & Finance | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Business & Electronic Communication |
| | | Career Path Courses: | Computerized Accounting I | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Speech, Discrete Math |
| | | Career Path Courses: | Business Law AND Computerized Accounting II Honors | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Statistics |
| | | Career Path Courses: | Small Business Entrepreneurship OR Financial Planning/Economics (Sun Valley Only) | |

Secondary to Postsecondary Linkages & Certifications

Postsecondary Credit Options:

Articulated Credit Available:
 Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing
 Principles of Business & Finance = BUS125 Personal Finance
 Computerized Accounting I = ACC111 Financial Accounting OR ACC115 College Accounting OR ACC118 Accounting Fundamentals I
 Computerized Accounting II = ACC119 Accounting Fundamentals II
 Small Business Entrepreneurship = BUS Small Business Management
 Business & Electronic Communication = BUS 260 Business Communications

*Please see your local school guidance counselor for other college credit opportunities

Industry Recognized Certificate(s) or License(s):

Postsecondary Programs Available

| | | |
|---------------------------------|-------------|---|
| Secondary Education Opportunity | Certificate | Certified Public Accountant (CPA), Certified Management Accountant (CMA), Certified Internal Auditor (CIA), Certified in Control Self-Assessment (CCSA), Certified Government Auditing Professional (CGAP), and Certified Financial Services Auditor (CFSA), Accredited Tax Advisor (ATA), Accredited Tax Preparer (ATP), Certified Fraud Examiner (CFE), Certified Government Financial Manager (CGFM) |
|---------------------------------|-------------|---|

| | |
|------------------|--|
| Associate Degree | Associate of Arts – Accounting Associate of Arts – Business Accounting Technology Associate of Arts – Accounting /Tax Specialist |
| Bachelor Degree | Bachelor of Science – Accounting Bachelor of Science – Accounting/Taxation |
| Graduate Degree | Masters Degree – Accounting Masters Degree - Taxation Masters Degree - Forensic Accounting |

Cluster Overview: The **Business Management, Finance and Administration Career Cluster** prepares students for careers that encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management, Finance and Administration career opportunities are available in every sector of the economy.

Extended Learning Experiences

Curricular Experiences:

Future Business Leaders of America (FBLA)
DECA

Work-Based Learning Experiences:

Summer Internships
Job Shadowing Opportunities
Marketing Cooperative Education

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Administrative Assistant

Career Options: Secretaries and Administrative Assistants, Data Entry and Information Processing Workers, Computer Operators, Office and Administrative Support Supervisors and Managers, File Clerks, Customer Service Representatives, Receptionists, Order Clerks, Desktop Publishers, Medical Transcription

For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| High School *Future Ready Example | Grade | Core Academic Courses: | Recommended Enhancement Courses: |
|--------------------------------------|------------------------|--|---|
| | | 9 th | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education |
| 10 th | Career Path Courses: | Computer Applications I | |
| | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Marketing I, Creative Writing |
| 11 th | Career Path Courses: | Computer Applications II AND Principles of Business & Finance | |
| | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, eCommerce I Honors |
| 12 th | Career Path Courses: | Business & Electronic Communications AND Computerized Accounting I | |
| | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: eCommerce II Honors, Biomedical Technology, Business Advanced Studies |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|---|
| UCPS Recognition for Advanced Learning | <p>Postsecondary Credit Options:</p> <p>Articulated Community College Credit Available:</p> <p>Computer Application I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Computer Application II = OST137 Office Software Application OR CIS 169/CTS 125 Business Presentations AND CIS 172/WEB 110 Intro to the Internet OR CIS 165/OST 233 Desktop Publishing Principles of Business & Finance = BUS125 Personal Finance Business & Electronic Communication = BUS 260 Business Communications e-Commerce I = CIS 172/WEB 110 Introduction to the Internet e-Commerce II = ITN 160/WEB 210 Web Design</p> <p>*Please see your local school guidance counselor for other college credit opportunities</p> |
| | <p>Industry Recognized Certificate(s) or License(s):</p> <p>Internet and Computing Core Certificate (IC3) Certified Internet Web Professional (CIW)</p> |

| Postsecondary Programs Available | | |
|---------------------------------------|------------------|--|
| Postsecondary Education Opportunities | Certificate | Certified Professional Secretary (CPS), Certified Administrative Professional (CAP), Accredited Legal Secretary (ALS), Professional Legal Secretary (PLS), Certified Legal Secretary Specialist (CLSS) |
| | Associate Degree | Administrative Assisting (AAA) Administrative Professional (AA) |
| | Bachelor Degree | Business Administration (BS) |
| | Graduate Degree | Business Administration (MBA) |

Cluster Overview: The **Business Management, Finance and Administration Career Cluster** prepares students for careers that encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management, Finance and Administration career opportunities are available in every sector of the economy.

Extended Learning Experiences


Curricular Experiences:

Future Business Leaders of America (FBLA)
DECA

Work-Based Learning Experiences:

Job Shadowing Opportunities
Marketing Cooperative Education

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.

| | |
|---|--|
|  | Career Major: Banking/Investments |
| | |

Career Options: Commercial Loan Officer, Consumer Loan Officer, Equipment Leasing specialist, Project Finance specialist, Loan Originator, Loan Processor, Credit Underwriter, Loan payment processor, Loan Asset Portfolio Manager, Credit collections agent, Investment banker, Securities Research Analyst, Finance Analyst, Securities Trader, Stockbroker, Securities Portfolio manager, Personal Banker, Personal Financial Planner

For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Career Management |
| | | Career Path Courses: | Computer Applications I | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Business & Electronic Communications |
| | | Career Path Courses: | Computerized Accounting I AND Principles of Business & Finance | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Computerized Accounting II Honors |
| | | Career Path Courses: | Small Business Entrepreneurship AND Business Law | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Marketing , Housing & Interiors I, Financial Education |
| | | Career Path Courses: | Banking & Credit/Securities (Sun Valley only) OR Business Advanced Studies AND International Marketing | |

Secondary to Postsecondary Linkages & Certifications

| | |
|--|---|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Principles of Business & Finance = BUS125 Personal Finance Computerized Accounting I = ACC111 Financial Accounting OR ACC115 College Accounting OR ACC118 Accounting Fundamentals I Computerized Accounting II = ACC119 Accounting Fundamentals II Small Business Entrepreneurship = BUS Small Business Management Business & Electronic Communication = BUS 260 Business Communications *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): |

| Postsecondary Programs Available | | |
|--|-------------------------|--|
| Postsecondary Education Opportunities | Certificate | Series 7 and Series 63 or 66 Securities licenses, Chartered Financial Analyst (CFA), Certified Financial Planner (CFP), Certified Mortgage Banker (CMB), Certified Bank Teller (CBT), Certified Corporate Trust Specialist (CCTS), Certified Lender Business Banker (CLBB) |
| | Associate Degree | Banking and Financial Support Services (AA) Business Administration - Banking and Finance (AA) Business Administration – Finance (AA) |
| | Bachelor Degree | Business Administration – Banking (BA) Banking and Financial Support (BA) |
| | Graduate Degree | Business Administration (MA) Business Finance (MA) |

Cluster Overview: The **Business Management, Finance and Administration Career Cluster** prepares students for careers that encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management, Finance and Administration career opportunities are available in every sector of the economy.

Extended Learning Experiences

Curricular Experiences:

Future Business Leaders of America (FBLA)
DECA

Work-Based Learning Experiences:

Job Shadowing Opportunities
Marketing Cooperative Education

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Career Major: Entrepreneurship/Small Business Owner

Career Options: Small Business Owner, Venture Capitalist, Executive management, Part Owner of a Limited Liability Company, Partner in a Partnership, Inventor, Small Business Consultant
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------------|-------------------------------|--|--|
| High School *Future Ready Example | 9th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Application I |
| | | Career Path Courses: | Principles of Business & Finance | |
| | 10th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Business & Electronic Communication, Computer Applications II |
| | | Career Path Courses: | Marketing AND Business Law | |
| | 11th | Core Academic Courses: | English III, Algebra II or Integrated Math III, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Marketing Management, Speech, eCommerce I Honors |
| | | Career Path Courses: | Computerized Accounting I AND International Marketing | |
| | 12th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Computer Accounting II Honors, Advanced Business, Strategic Marketing |
| | | Career Path Courses: | Small Business Entrepreneurship | |

Secondary to Postsecondary Linkages & Certifications

| | |
|--|--|
| UCPS Recognition for Advanced Learning | <p>Postsecondary Credit Options:</p> <p>Articulated Community College Credit Available:</p> <p>Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Principles of Business & Finance = BUS125 Personal Finance Computerized Accounting I = ACC111 Financial Accounting OR ACC115 College Accounting OR ACC118 Accounting Fundamentals I Small Business Entrepreneurship = BUS Small Business Management Business & Electronic Communication = BUS 260 Business Communications Computerized Accounting II = ACC119 Accounting Fundamentals II Marketing Management = MKT 120 Principles of Marketing</p> <p>*Please see your local school guidance counselor for other college credit opportunities</p> |
| | <p>Industry Recognized Certificate(s) or License(s):</p> |

| Postsecondary Programs Available | | |
|---------------------------------------|------------------|--|
| Postsecondary Education Opportunities | Certificate | Entrepreneurship Certificate (ENT), Certified Intelligent Entrepreneur (CIE), Certified Associate Entrepreneur (CAE) |
| | Associate Degree | Entrepreneurship (AA) Small Business Management (AA) |
| | Bachelor Degree | Business Administration (BS) |
| | Graduate Degree | Business Administration (MBA) |

Cluster Overview: The **Business Management, Finance and Administration Career Cluster** prepares students for careers that encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management, Finance and Administration career opportunities are available in every sector of the economy.

Extended Learning Experiences

Curricular Experiences:

Future Business Leaders of America (FBLA)
DECA

Work-Based Learning Experiences:

Job Shadow Opportunities
Marketing Cooperative Education

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Hospitality Management

Career Options: Meeting and Convention Planners, Event Planners, Tour Guides, Airline Sales & Service Agent, Entertainment Director, Chamber of Commerce Consultant, Travel Consultant, Conference Manager, Cultural Specialist, Strategic Planner
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Speech, Visual Arts I, Global Awareness |
| | | Career Path Courses: | Computer Applications I | |
| | 10th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Computer Applications II, Foods I, Housing and Interiors I |
| | | Career Path Courses: | Sports & Entertainment Marketing I AND Principles of Business & Finance | |
| | 11th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Digital Arts Studio I |
| | | Career Path Courses: | Travel & Tourism Marketing AND International Marketing | |
| | 12th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Business Law, Marketing Management, Business Advanced Studies |
| | | Career Path Courses: | Small Business Entrepreneurship AND Sports & Entertainment Marketing II | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|--|
| UCPS Recognition for Advanced Learning | <p>Postsecondary Credit Options: Articulated Community College Credit Available:</p> <p>Computer Applications I = CIS 111 Basic PC Literacy OR CIS 113 Computer Basics AND OST 136 Word Processing Principles of Business and Finance = BUS 125 Personal Finance Small Business Entrepreneurship = BUS Small Business Management Marketing and Marketing Management = MKT 120 Principles of Marketing Foods I Fundamentals = CUL 222 Nutrition OR SCI 103 Nutrition</p> <p>*Please see your local school guidance counselor for other college credit opportunities</p> |
| | <p>Industry Recognized Certificate(s) or License(s):</p> |

| Postsecondary Programs Available | | |
|--|-------------------------|--|
| Postsecondary Education Opportunities | Certificate | Tourism and Travel Services Management Travel Agent Certificate |
| | Associate Degree | Tourism and Travel Services Management (AA) Marketing Management (AA) |
| | Bachelor Degree | Hotel Management (BS) Travel, Tourism and Hospitality (BS) Hotel and Lodging Management (BS) Sports, Entertainment, and Event Management (BS) |
| | Graduate Degree | Hospitality & Tourism (MBA) |

Cluster Overview: The **Human Services Career Cluster** prepares students for careers and employment in career pathways that relate to families and human needs.

Extended Learning Experiences

Curricular Experiences:

DECA
Family Career and Community Leaders of America (FCCLA)
Future Business Leaders of America (FBLA)

Work-Based Learning Experiences:

Job Shadowing Opportunities
Marketing Cooperative Education

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.





Career Major: Biomedical Research and Development

Career Options: Biological Technician, Medical Research Scientist, Biostatistician, Biochemist, Biomedical Engineer, Microbiologist, Immunologist, Epidemiologist, Genetics.

For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Agriscience Applications |
| | | Career Path Courses: | Health Team Relations AND Computer Applications I | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I (Latin), Chemistry |
| | | Career Path Courses: | Biomedical Technology AND Biotechnology & Agriscience Research I | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, AP Biology II |
| | | Career Path Courses: | Medical Sciences I AND Biotechnology & Agriscience Research II Honors | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Physics, Statistics, Health Sciences Education Advanced Studies, Agricultural Advanced Studies |
| | | Career Path Courses: | Honors Medical Sciences II AND Personal Finance | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|--|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Computer Applications I = CIS 111 Basic PC Literacy OR CIS 113 Computer Basics AND OST 136 Word Processing Medical Sciences I = MED 110 Orientation to Medical Assistant AND MED 112 Orientation to Clinical Setting Medical Sciences II = MED 121 Medical Terminology I AND MED122 Medical Terminology II *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): National Healthcare Foundation Skills Certification |

Postsecondary Programs Available

| | | |
|--|------------------|---------------------------------------|
| Postsecondary Education Opportunities | Certificate | |
| | Associate Degree | Biomedical Equipment Technician (AAS) |

| | |
|-----------------|---|
| Bachelor Degree | Biomedical Engineer (BS) Biostatistician (BS) Biochemistry (BS) Microbiology (BS) |
| Graduate Degree | Biomedical Engineer (MS) Biostatistician (MS) Genetics (MS) Immunology (MS) Microbiology (MS) Biomedical Engineer (PhD) Biostatistician (PhD) Epidemiology (PhD) |

Cluster Overview: The **Health Science Career Cluster** prepares students for careers in planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Extended Learning Experiences

Curricular Experiences:

Health Occupation Clubs
 Health Occupations Students of America (HOSA)
 Future Business Leaders of America (FBLA)
 National FFA

Work-Based Learning Experiences:

Job Shadowing Opportunities

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Certified Nursing Assistant (CNA)

Central Academy of Technology & Arts, Forest Hills HS, Monroe HS ONLY

Career Options: Therapeutic Examples: Nursing Assistant, Dental Hygienists, Mental Health Services, Nursing, Physical Therapy, Physician Assistant, Dentist, Pharmacist, Physician, Radiology Services, Veterinary Services, Massage Therapist, Emergency Medical Services

For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Foreign Language I (Latin), Speech, Computer Applications I, Global Awareness |
| | | Career Path Courses: | Health Team Relations | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language II (Latin), Business & Electronic Communications |
| | | Career Path Courses: | Biomedical Technology AND Parenting & Child Development | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Chemistry, Biology II, Foods I Fundamentals |
| | | Career Path Courses: | Medical Sciences I OR Allied Health I AND Personal Finance | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Statistics, Physics, Applications of Medical Science |
| | | Career Path Courses: | Allied Health II | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|--|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Medical Sciences I/Allied Health I = MED110 Orientation to Medical Assistant AND MED112 Orientation to Clinical Setting Medical Sciences II/Allied Health II = MED121 Medical Terminology I AND MED122 Medical Terminology II Foods I Fundamentals = CUL222 Nutrition OR SCI103 Nutrition (Art Institute) *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): National Healthcare Foundation Skills Assessment Nurse Aide I Certification |

| | | Postsecondary Programs Available |
|--|------------------|--|
| Postsecondary Education Opportunities | Certificate | Dental Hygienist Radiologic Technologist Massage Therapist Certified Medical Assistant (CMA) EMT Basic Certification |
| | Associate Degree | Dental Hygiene (AAS) Nursing (AAS) Physical Therapist Assistant (AAS) Radiation Therapist (AAS) Radiologic Technologist (AAS) Veterinary Technician (AAS) |
| | Bachelor Degree | Dental Hygiene (BS), Registered Nurse (BSN), Radiologic Technology (BS), Paramedic (BS) |
| | Graduate Degree | Dental Hygienist (MS) Psychology (MA) Physical Therapy (DPT) Registered Nurse (MS) Physician Assistant (MS) Psychology Registered Nurse Physical Therapy Physician Veterinarian Dentistry Radiology Pharmacy |

Cluster Overview: The **Health Science Career Cluster** prepares students for careers in planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Extended Learning Experiences

Curricular Experiences:

Health Occupation Clubs
Health Occupations Students of America (HOSA)
Future Business Leaders of America (FBLA)

Work-Based Learning Experiences:

Job Shadowing Opportunities

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Cosmetic Art & Science

Career Options: Cosmetologist, Hairdresser, Manicurist, Pedicurist, Skin Care Specialist, Skin Estheticians, etc.
For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|--------------------------------------|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I, Visual Arts I |
| | | Career Path Courses: | Principles of Business & Finance | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Marketing, Biomedical Technology |
| | | Career Path Courses: | Marketing OR Accounting I | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Business Law |
| | | Career Path Courses: | Cosmetology I | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Small Business Entrepreneurship |
| | | Career Path Courses: | Cosmetology II | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|--|
| UCPS Recognition for Advanced Learning | Postsecondary Community College Credit Options: |
| | <p>Articulated Credit Available:</p> <p>Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Principles of Business & Finance = BUS125 Personal Finance Computerized Accounting I = ACC111 Financial Accounting OR ACC115 College Accounting OR ACC118 Accounting Fundamentals I Small Business Entrepreneurship = BUS Small Business Management</p> <p>*Please see your local school guidance counselor for other college credit opportunities</p> |
| | Industry Recognized Certificate(s): Cosmetologist Nail Technician Skin Care Technician |

Postsecondary Programs Available

| | | |
|--|------------------|--|
| Postsecondary Education Opportunities | Certificate | Cosmetologist Nail Technician Skin Care Technician |
| | Associate Degree | Cosmetology (AAS) Business Administration (AA) |
| | Bachelor Degree | Business Administration (BA) |

Graduate
Degree

Business Administration (MA and PhD)

Cluster Overview: The **Human Services Career Cluster** prepares students for careers and employment in career pathways that relate to families and human needs.

Extended Learning Experiences

Curricular Experiences:

Student Clinical Hours

Work-Based Learning Experiences:

Job Shadowing Opportunities
Student Enterprise

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Counseling & Social Services

Career Options: Social Worker, Substance Abuse Counselors, Rehabilitation Counselors, School Counselors, Marriage and Family Therapist, Social and Community Service Manager.
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | |
|---|------------------------|--|--|
| High School *Future Ready Example | 9th | Core Academic Courses: English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Speech, Foreign Language I, Computer Applications I |
| | | Career Path Courses: Teen Living | |
| | 10th | Core Academic Courses: English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language II, Career Management, Computerized Accounting I |
| | | Career Path Courses: Parenting & Child Development AND Foods I Fundamentals | |
| | 11th | Core Academic Courses: English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language III, Medical Sciences I |
| | | Career Path Courses: Early Childhood I AND Psychology/Sociology | |
| | 12th | Core Academic Courses: English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Peer Tutoring, Medical Sciences II(Honors), Financial Planning(SVHS Only), AP Psychology |
| | | Career Path Courses: Family & Consumer Sciences Advanced Studies AND Personal Finance | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|---|
| UCPS Recognition for Advanced Learning | Postsecondary Community College Credit Options: Articulated Community College Credit Available: Computerized Accounting I = ACC111 Financial Accounting OR ACC115 College Accounting OR ACC118 Accounting Fundamentals I Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Financial Planning = ECO252 Principles of Macroeconomics Medical Sciences I = MED110 Orientation to Medical Assistant AND MED112 Orientation to Clinical Setting Medical Sciences II = MED121 Medical Terminology I AND MED122 Medical Terminology II Principles of Business and Personal Finance = BUS 125 Personal Finance Foods I Fundamentals = CUL222 Nutrition OR SCI103 Nutrition *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): |

| Postsecondary Programs Available | | |
|--|------------------|--|
| Postsecondary Education Opportunities | Certificate | |
| | Associate Degree | General Human Services (AA) Social Work (AA) Financial Planning (AA) |
| | Bachelor Degree | Social Work (BS) Psychology (BA) Sociology (BA) |
| | Graduate Degree | Counseling (MA) Social Work (MA) Social Work (PhD) |

Cluster Overview: The **Human Services Career Cluster** prepares students for careers and employment in career pathways that relate to families and human needs.

Extended Learning Experiences

Curricular Experiences:

Family Career and Community Leaders of America (FCCLA)
Future Business Leaders of America (FBLA)

Work-Based Learning Experiences:

Job Shadowing Opportunities

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Emergency Medical Technician

Forest Hills HS & Monroe HS ONLY

Career Options: Therapeutic Examples: Emergency Medical Technician, Dental Hygienists, Mental Health Services, Nursing, Physical Therapy, Physician Assistant, Dentist, Pharmacist, Physician, Radiology Services, Veterinary Services, Massage Therapist, Emergency Medical Services

For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Foreign Language I (Latin), Speech, Computer Applications I, Global Awareness |
| | | Career Path Courses: | Health Team Relations | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language II (Latin), Business & Electronic Communications |
| | | Career Path Courses: | Biomedical Technology AND Parenting & Child Development | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Chemistry, Biology II, Foods I Fundamentals |
| | | Career Path Courses: | Medical Sciences I AND Personal Finance | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Statistics, Physics, Applications of Medical Science |
| | | Career Path Courses: | Medical Sciences II Honors – Emergency Medical Technician | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|--|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Medical Sciences I/Allied Health I = MED110 Orientation to Medical Assistant AND MED112 Orientation to Clinical Setting Medical Sciences II/Allied Health II = MED121 Medical Terminology I AND MED122 Medical Terminology II Foods I Fundamentals = CUL222 Nutrition OR SCI103 Nutrition (Art Institute) *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): National Healthcare Foundation Skills Assessment Nurse Aide I Certification |

| | | Postsecondary Programs Available |
|--|------------------|--|
| Postsecondary Education Opportunities | Certificate | Dental Hygienist Radiologic Technologist Massage Therapist Certified Medical Assistant (CMA) EMT Basic Certification |
| | Associate Degree | Dental Hygiene (AAS) Nursing (AAS) Physical Therapist Assistant (AAS) Radiation Therapist (AAS) Radiologic Technologist (AAS) Veterinary Technician (AAS) |
| | Bachelor Degree | Dental Hygiene (BS), Registered Nurse (BSN), Radiologic Technology (BS), Paramedic (BS) |
| | Graduate Degree | Dental Hygienist (MS) Psychology (MA) Physical Therapy (DPT) Registered Nurse (MS) Physician Assistant (MS) Psychology Registered Nurse Physical Therapy Physician Veterinarian Dentistry Radiology Pharmacy |

Cluster Overview: The **Health Science Career Cluster** prepares students for careers in planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Extended Learning Experiences

Curricular Experiences:

Health Occupation Clubs
Health Occupations Students of America (HOSA)
Future Business Leaders of America (FBLA)

Work-Based Learning Experiences:

Job Shadowing Opportunities

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Medical Services

Career Options: Therapeutic Examples: Dental Hygienists, Mental Health Services, Nursing, Physical Therapy, Physician Assistant, Dentist, Pharmacist, Physician, Radiology Services, Veterinary Services, Massage Therapist, Emergency Medical Services
Diagnostic Examples: Radiological Technologist and Technician, Clinical Lab Technician, Medical Sonographer, and Nutritionist
Health Informatics Examples: Health Information Technician (Medical Records), Health Services Administrator, and Health Sciences Information Librarian

For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|--------------------------------------|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Foreign Language I (Latin), Speech, Computer Applications I, Global Awareness |
| | | Career Path Courses: | Health Team Relations | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language II (Latin), Business & Electronic Communications |
| | | Career Path Courses: | Biomedical Technology AND Parenting & Child Development | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Chemistry, Biology II, Foods I Fundamentals |
| | | Career Path Courses: | Medical Sciences I OR Allied Health I (CATA, MHS, FHHS only) AND Personal Finance | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Statistics, Physics, Applications of Medical Science |
| | | Career Path Courses: | Medical Sciences II Honors OR Allied Health II (CATA, MHS, FHHS only) OR EMT/Health Occ Advanced Studies (FHHS Only) | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|--|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Medical Sciences I/Allied Health I = MED110 Orientation to Medical Assistant AND MED112 Orientation to Clinical Setting Medical Sciences II/Allied Health II = MED121 Medical Terminology I AND MED122 Medical Terminology II Foods I Fundamentals = CUL222 Nutrition OR SCI103 Nutrition (Art Institute) *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): National Healthcare Foundation Skills Assessment Nurse Aide I Certification |

| | | Postsecondary Programs Available |
|--|------------------|--|
| Postsecondary Education Opportunities | Certificate | Dental Hygienist Radiologic Technologist Massage Therapist Certified Medical Assistant (CMA) EMT Basic Certification |
| | Associate Degree | Dental Hygiene (AAS) Nursing (AAS) Physical Therapist Assistant (AAS) Radiation Therapist (AAS) Radiologic Technologist (AAS) Veterinary Technician (AAS) |
| | Bachelor Degree | Dental Hygiene (BS), Registered Nurse (BSN), Radiologic Technology (BS), Paramedic (BS) |
| | Graduate Degree | Dental Hygienist (MS) Psychology (MA) Physical Therapy (DPT) Registered Nurse (MS) Physician Assistant (MS) Psychology Registered Nurse Physical Therapy Physician Veterinarian Dentistry Radiology Pharmacy |

Cluster Overview: The **Health Science Career Cluster** prepares students for careers in planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Extended Learning Experiences

Curricular Experiences:

Health Occupation Clubs
Health Occupations Students of America (HOSA)
Future Business Leaders of America (FBLA)

Work-Based Learning Experiences:

Job Shadowing Opportunities

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Hospitality, Travel & Tourism

Career Options: Lodging Manager, Food and Beverage Manager, Rooms Managers, Chefs and Head Cooks, Waiters and Waitresses, Bartenders, Fast Food and Counter Workers, Building Cleaning Workers, Maids and Housekeeping Cleaners, and Janitor, Waiters and Waitresses, Hosts and Hostesses, Baggage Porters and Bellhops, Concierge, Desk Clerks, Line Supervisor, Quality Assurance,

For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|--------------------------------------|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Application I, Teen Living |
| | | Career Path Courses: | Principles of Business & Personal Finance | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Computer Accounting I |
| | | Career Path Courses: | Foods I Fundamentals OR Pro Start I | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, International Marketing |
| | | Career Path Courses: | Marketing AND Foods II Advanced OR Pro Start II | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Foods II Technology, Marketing Advanced Studies, FACS Advanced Studies |
| | | Career Path Courses: | Small Business Entrepreneurship AND Travel & Tourism | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|---|
| UCPS Recognition for Advanced Learning | <p>Postsecondary Credit Options:</p> <p>Articulated College Credit Available:</p> <p>Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Principles of Business & Personal Finance = BUS125 Personal Finance Computerized Accounting I = ACC111 Financial Accounting OR ACC115 College Accounting OR ACC118 Accounting Fundamentals I Small Business Entrepreneurship = BUS Small Business Management Foods I & II = CUL 112 Nutrition for Food Service Foods I = CUL 222 Nutrition or SCI 103 Nutrition (Art Institute) Foods II = CUL 102 Sanitation and Safety (Art Institute)</p> <p>*Please see your local school guidance counselor for other college credit opportunities</p> |
| | <p>Industry Recognized Certificate(s) or License(s):</p> <p>ServSafe Certificate ProStart Certificate</p> |

| Postsecondary Programs Available | | |
|--|-------------------------|---|
| Postsecondary Education Opportunities | Certificate | American Culinary Federation certifications, Certified Hotel Administrator (CHA), Certified Lodging Manager (CLM), Certified Lodging Owner (CLO), Certified Rooms Division Executive (CRDE), Certified Hospitality Housekeeping Executive (CHHE), Certified Front Desk Manager (CFDM), Certified Restaurant Manager (CRM), Certified Hospitality Revenue Manager (CHRM) |
| | Associate Degree | Hotel and Restaurant Management (AA) Hospitality Management (AA) Food and Beverage Management (AA) |
| | Bachelor Degree | Hotel and Restaurant Management (BS) Hospitality Management (BS) Food and Beverage Management (BS) |
| | Graduate Degree | Business Administration / Hotel and Restaurant Management (MBA) Food Sciences (MS) Business Administration / Hospitality (MS) |

Cluster Overview: The **Business Management, Finance and Administration Career Cluster** prepares students for careers that encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management, Finance and Administration career opportunities are available in every sector of the economy.

Extended Learning Experiences

Curricular Experiences:

Family, Career and Community Leaders of America (FCCLA)
DECA
ProStart

Work-Based Learning Experiences:

Job Shadowing
Marketing Cooperative Education

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.





Career Major: Computer Science

Career Options: Computer Software Engineers, Applications; Computer Software Engineers, Systems Software; Computer & Mathematical Occupations; Business Analyst; Computer Programmer; Programming Analyst; Programming Engineer; Systems Analyst
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|--------------------------------------|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications II |
| | | Career Path Courses: | Computer Applications I | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, US History, Foreign Language I | Recommended Enhancement Courses: Foreign Language I, Business & Electronic Communication, Computerized Accounting I |
| | | Career Path Courses: | Computer Programming I AND Principles of Business & Finance | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Marketing I, Speech |
| | | Career Path Courses: | Computer Programming II Honors AND eCommerce I Honors | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Business Advanced Studies, eCommerce II Honors, Business Advanced Studies |
| | | Career Path Courses: | AP Computer Science | |

Secondary to Postsecondary Linkages & Certifications

| | |
|--|---|
| UCPS Recognition for Advanced Learning | <p>Postsecondary Credit Options: Articulated Community College Credit Available: Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Computer Applications II = OST137 Office Software Applications OR CIS169/CTS125 Business Presentations AND CIS172/WEB110 Intro to the Internet OR CIS165/OST233 Desktop Publishing I e-Commerce I = CIS172/WEB110 Introduction to the Internet e-Commerce II = ITN160/WEB210 Web Design Principles of Business & Finance = BUS125 Personal Finance Small Business Entrepreneurship = BUS Small Business Management Business & Electronic Communications = BUS260 Business Communications Computerized Accounting I = ACC111 Financial Accounting OR ACC115 College Accounting OR ACC118 Accounting Fundamentals I</p> <p>*Please see your local school guidance counselor for other college credit opportunities</p> |
| | <p>Industry Recognized Certificate(s) or License(s): Certified Internet Web Professional (CIW) Internet and Computing Core Certification (IC3)</p> |

Postsecondary Programs Available

| | | |
|--|-------------------------|--|
| Postsecondary Education Opportunities | Certificate | Computer Information Technology – Programming Certificate Computer Programming Certificate |
| | Associate Degree | Computer Information Technology (AS) Computer Engineering Technology (AAS) Computer Programming (AAS) |
| | Bachelor Degree | Information Systems: Computer Programming (BS) Computer Science (BS) Management Information Systems (BS) |
| | Graduate Degree | Masters and Doctorate programs available in Computer Science and Management Information Systems |

Cluster Overview: The **Information Technology Career Cluster** prepares students for Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.

Extended Learning Experiences

Curricular Experiences:

Future Business Leaders of America (FBLA)
DECA

Work-Based Learning Experiences:

Job Shadowing Opportunities
Marketing Cooperative Education

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Network Administration

Central Academy of Technology & Arts

Career Options: Computer Support Specialists; Network and Computer Systems Administration; Network Systems and Data Communications Analysts; Cabling Technician; Internetworking Associate; IT Support Specialist; IT Support Service Technician; Network Designer; Network Security Specialist; Systems Administrator; Web Server Administrator; Telecommunications Specialist; Computer Scientist; Computer Service Repair Technician

For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I |
| | | Career Path Courses: | Foundations of Information Technology | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Computer Engineering Technology I, Computer Applications II |
| | | Career Path Courses: | Networking I AND Principles of Business & Finance | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Computer Engineering Technology I, Electronics I |
| | | Career Path Courses: | Network Administration II - Microsoft | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Small Business Entrepreneurship, Network Engineering II, Home Technology Integration |
| | | Career Path Courses: | Business Advanced Studies | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|--|
| UCPS Recognition for Advanced Learning | <p>Postsecondary Credit Options:</p> <p>Articulated Community College Credit Available:</p> <p>Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Computer Applications II = OST137 Office Software Applications OR CIS169/CTS125 Business Presentations AND CIS172/WEB110 Intro to the Internet OR CIS165/OST233 Desktop Publishing I e-Commerce I = CIS172/WEB110 Introduction to the Internet Principles of Business & Finance = BUS125 Personal Finance Small Business Entrepreneurship = BUS Small Business Management Computerized Accounting I = ACC111 Financial Accounting OR ACC115 College Accounting OR ACC118 Accounting Fundamentals I Computerized Accounting II = ACC119 Accounting Fundamentals II Computer Engineering Technology I & II (A) = Survey Operating System and Hardware, Installation, and Management</p> |
|---|--|

| | |
|--|---|
| | <p>Computer Engineering I = CTS120 Hardware/Software Support Computer Engineering Technology II = CTS 220 Advanced Hardware/Software Support Networking I = NET110 Data Communication/Networking Network Engineering Technology II Cisco = NET125 Routing & Switching I AND NET126 Routing & Switching II</p> <p>*Please see your local school guidance counselor for other college credit opportunities</p> |
| | <p>Industry Recognized Certificate(s) or License(s): Microsoft Network Administration Certification A+ Certification Certified Internet Web Professional (CIW) Internet and Computing Core Certification (IC3)</p> |

Postsecondary Programs Available

| | | |
|--|-------------------------|--|
| Postsecondary Education Opportunities | Certificate | <p>Networking Technology Certificate Computer Networking Certificate Computer Information Technology Certificate</p> |
| | Associate Degree | <p>Networking Technology (AAS) Computer Information Technology (AAS) Programming Network Administration (AAS)</p> |
| | Bachelor Degree | <p>Information Systems: Network Administration (BS) Computer Science (BS) Management Information Systems (BS)</p> |
| | Graduate Degree | <p>Masters and Doctorate programs available in Computer Science and Management Information Systems</p> |

Cluster Overview: The **Information Technology Career Cluster** prepares students for Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.

Extended Learning Experiences

Curricular Experiences:

Future Business Leaders of America (FBLA)
 DECA
 Skills USA

Work-Based Learning Experiences:

Job Shadowing Opportunities
 Internships
 Marketing Cooperative Education

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Network Engineering

Central Academy of Technology & Arts

Career Options: Computer Support Specialists; Network and Computer Systems Engineers; Network Systems and Data Communications Analysts; Cable Installer; Cabling Technician; Internetworking Associate; IT Support Specialist; Systems Administrator; Web Server Administrator; Telecommunications Specialist; Computer Scientist; Computer Service Repair Technician; Electronics Technician

For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|--------------------------------------|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I, Computer Engineering Technology I |
| | | Career Path Courses: | Foundations of Information Technology | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Computer Engineering Technology II |
| | | Career Path Courses: | Networking I AND Electronics I | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Network Administration II - Microsoft |
| | | Career Path Courses: | Network Engineering Technology II – Cisco AND Principles of Business & Finance | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Small Business Entrepreneurship, Home Technology Integration |
| | | Career Path Courses: | Network Engineering Technology III - Cisco | |

Secondary to Postsecondary Linkages & Certifications

| | |
|--|---|
| UCPS Recognition for Advanced Learning | <p>Postsecondary Credit Options:</p> <p>Articulated Community College Credit Available:</p> <p>Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing eCommerce I = CIS172/WEB110 Introduction to the Internet Principles of Business & Finance = BUS125 Personal Finance Small Business Entrepreneurship = BUS Small Business Management Computer Engineering Technology I & II (A) = Survey Operating System and Hardware, Installation, and Management Computer Engineering Technology I = CTS120 Hardware/Software Support Computer Engineering Technology II = CTS 220 Advanced Hardware/Software Support Networking I = NET110 Data Communication/Networking Network Engineering Technology II Cisco = NET125 Routing & Switching I AND NET126 Routing & Switching II</p> <p>*Please see your local school guidance counselor for other college credit opportunities.</p> |
| | <p>Industry Recognized Certificate(s) or License(s):</p> <p>CISCO Network Engineering Certification Certified Internet Web Professional (CIW) Internet and Computing Core Certification (IC³) A+ Certification</p> |

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| Postsecondary Programs Available | | | | | | | | | |
|--|---|--------------------|--|-------------------------|--|------------------------|---|------------------------|---|
| Postsecondary Education Opportunities | <table border="1"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Certificate</td> <td>Computer Information Technology - CISCO Certification Networking Technology Certificate</td> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Associate Degree</td> <td>Computer Information Technology (AAS) Network Engineering (AAS)</td> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Bachelor Degree</td> <td>Computer Network Engineering (BS) Information Systems: Network Administration (BS) Computer Science (BS) Management Information Systems (BS)</td> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Graduate Degree</td> <td>Masters and Doctorate programs available in Computer Science and Management Information Systems</td> </tr> </table> | Certificate | Computer Information Technology - CISCO Certification Networking Technology Certificate | Associate Degree | Computer Information Technology (AAS) Network Engineering (AAS) | Bachelor Degree | Computer Network Engineering (BS) Information Systems: Network Administration (BS) Computer Science (BS) Management Information Systems (BS) | Graduate Degree | Masters and Doctorate programs available in Computer Science and Management Information Systems |
| Certificate | Computer Information Technology - CISCO Certification Networking Technology Certificate | | | | | | | | |
| Associate Degree | Computer Information Technology (AAS) Network Engineering (AAS) | | | | | | | | |
| Bachelor Degree | Computer Network Engineering (BS) Information Systems: Network Administration (BS) Computer Science (BS) Management Information Systems (BS) | | | | | | | | |
| Graduate Degree | Masters and Doctorate programs available in Computer Science and Management Information Systems | | | | | | | | |

Cluster Overview: The **Information Technology Career Cluster** prepares students for Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.

| Extended Learning Experiences |
|---|
| <p>Curricular Experiences:</p> <p>Future Business Leaders of America (FBLA) Skills USA</p> |
| <p>Work-Based Learning Experiences:</p> <p>Job Shadowing Opportunities Internships</p> |

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.



Career Major: Web Design

Career Options: Webmaster, Web Designer, Graphic Designer, Web Developer

For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9 th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Visual Arts I, Global Awareness |
| | | Career Path Courses: | Computer Applications I | |
| | 10 th | Core Academic Courses: | English II, Geometry, Biology, Civics & Economics | Recommended Enhancement Courses: Foreign Language I, Digital Arts Studio I |
| | | Career Path Courses: | Computer Applications II AND Principles of Business & Finance | |
| | 11 th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Small Business Entrepreneurship |
| | | Career Path Courses: | eCommerce I Honors AND International Marketing | |
| | 12 th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Business Advanced Studies |
| | | Career Path Courses: | eCommerce II Honors AND Business Law | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|---|
| UCPS Recognition for Advanced Learning | <p>Postsecondary Credit Options:</p> <p>Articulated Community Credit Available:</p> <p>Computer Applications I = CIS111 Basic PC Literacy OR CIS113 Computer Basics AND OST136 Word Processing Computer Applications II = OST137 Office Software Applications OR CIS169/CTS 125 Business Presentations AND CIS172/WEB110 Intro to the Internet OR CIS165/OST233 Desktop Publishing I eCommerce I = CIS172/WEB110 Introduction to the Internet eCommerce II = ITN160/WEB210 Web Design Principles of Business & Finance = BUS125 Personal Finance Small Business Entrepreneurship = BUS Small Business Management</p> <p>*Please see your local school guidance counselor for other college credit opportunities</p> |
| | <p>Industry Recognized Certificate(s):</p> <p>Certified Internet Web Professional (CIW) Internet and Computing Core Certification (IC3)</p> |

| Postsecondary Programs Available | |
|--|--|
| Postsecondary Education Opportunities | Certificate Graphic Design Certificate Web Design and Interactive Media Certificate Web Technologies Certificate |
| | Associate Degree Web Technologies (AAS) Web Design (AA) Computer Information Technology (AS) |
| | Bachelor Degree Information Systems: Web Design (BS) Computer Science (BS) Management Information Systems (BS) |
| | Graduate Degree Masters and Doctorate programs available in Computer Science and Management Information Systems |

Cluster Overview: The **Information Technology Career Cluster** prepares students for Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.

Extended Learning Experiences

Curricular Experiences:


Future Business Leaders of America (FBLA)
 DECA

Work-Based Learning Experiences:

Job Shadowing Opportunities
 Marketing Cooperative Education

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| | |
|---|---|
|  | Career Major: Automotive Technology |
| | Central Academy of Technology & Arts |

Career Options: Automotive Business Manager, Automotive Engineer, Motor Sports Consultant, Automotive Service Technicians and Mechanics, Automotive & Collision Instructor, Insurance Collision Repair Adjuster
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

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|---|------------------------|-------------------------------|--|--|
| High School *Future Ready Example | 9th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I |
| | | Career Path Courses: | Introduction to Transportation AND Principles of Business & Finance | |
| | 10th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Electronics I, Computer Engineering Technology I |
| | | Career Path Courses: | Automotive Technology I AND/OR Collision Repair I | |
| | 11th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Electronics II, Computer Engineering Technology II |
| | | Career Path Courses: | Automotive Technology II AND/OR Collision Repair II | |
| | 12th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Motor Sports, Introduction to Engineering Design |
| | | Career Path Courses: | Automotive Technology III AND/OR Collision Repair III (Trade & Industrial Advance Studies) | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|---|
| UCPS Recognition for Advanced Learning | Postsecondary Community College Credit Options: Articulated Community College Credit Available: AUT 110 Intro to Automotive Technology AUT 151 Brake Systems AUT 161 Electrical Systems BUS 125 Personal Finance *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): NATEF certification exam (Steering and Suspension ,Brakes ,Electrical systems, Engine Performance) |

| Postsecondary Programs Available | |
|--|--|
| Postsecondary Education Opportunities | Certificate Automotive Systems Technology Diploma Performance Motor Sports Certificate Performance Motor Machining Certificate |
| | Associate Degree Automotive Systems Technology (AAS) Automotive Service Technology (AAS) |
| | Bachelor Degree Automotive Engineering (BS) Automotive Technology Management (BS) |
| | Graduate Degree Automotive Engineering (MS), (PhD) |

Cluster Overview: The **Science, Technology, Engineering and Math Career Cluster** prepares students in planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.


Extended Learning Experiences

Curricular Experiences:
Skills USA

Work-Based Learning Experiences:

Job Shadowing Opportunities
Internships

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.

| | |
|---|---|
|  | Career Major: Project Lead the Way Engineering |
| | Central Academy of Technology & Arts |

Career Options: Electrical Engineering, Electronics Engineering, Mechanical Engineering, Civil Engineering, Aerospace Engineering, Mechanical Engineering
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

| Suggested High School Courses | | | | |
|---|------------------------|-------------------------------|--|--|
| High School *Future Ready Example | 9th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I, Drafting I |
| | | Career Path Courses: | Principles of Business & Finance AND Honors Introduction to Engineering Design | |
| | 10th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Electronics I, Computer Engineering Technology I |
| | | Career Path Courses: | Honors Digital Electronics AND Honors Principles of Engineering | |
| | 11th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Electronics II, Computer Engineering Technology II |
| | | Career Path Courses: | Aerospace Engineering | |
| | 12th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Computer Integrated Manufacturing |
| | | Career Path Courses: | Engineering Design & Development | |

| Secondary to Postsecondary Linkages & Certifications | |
|--|---|
| UCPS Recognition for Advanced Learning | <p>Postsecondary Credit Options:</p> <p>Articulated Community College Credit Available:</p> <p>Electronics I = ETC 112 DC/AC Electricity Principles of Business & Finance=BUS 125 Personal Finance</p> <p>Articulated University College Credit Available: Project Lead the Way's participating colleges and universities at www.pltw.org .</p> <p>*Please see your local school guidance counselor for other college credit opportunities</p> <hr/> <p>Industry Recognized Certificate(s) or License(s):</p> |

| Postsecondary Programs Available | | |
|--|-------------------------|---|
| Postsecondary Education Opportunities | Certificate | Architectural Technology Certificate with a Specialization in Computer Aided Design/Drafting Architectural Technology Certificate with a Specialization in Residential Architectural Technology |
| | Associate Degree | Civil Engineering Technology (AAS) Electronics Engineering Technology (AAS) |
| | Bachelor Degree | Civil Engineering (BS) Aerospace Engineering (BS) Electrical Engineering (BS) Mechanical Engineering (BS) Environmental Engineering (BS) Industrial Engineering (BS) Material Engineering (BS) Engineering Management (BS) |
| | Graduate Degree | Civil Engineering (MS) Industrial Engineering (MS) Material Engineering (MS) Mechanical Engineering (MS) Aerospace Engineering (MS) Electrical Engineering (MS) Engineering Management (MS) Environmental Engineering (MS) |

Cluster Overview: The **Science, Technology, Engineering and Math Career Cluster** prepares students in planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

Extended Learning Experiences


Curricular Experiences:

Skills USA

Work-Based Learning Experiences:

Job Shadowing Opportunities
Internships

Union County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.

| | |
|---|---|
|  | Career Major: Project Lead the Way Engineering |
| | Forest Hills High |

Career Options: Electrical Engineering, Electronics Engineering, Mechanical Engineering, Civil Engineering, Aerospace Engineering, Mechanical Engineering
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I, Fundamentals of Technology |
| | | Career Path Courses: | Principles of Business & Finance AND Honors Introduction to Engineering Design | |
| | 10th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I, Drafting I |
| | | Career Path Courses: | Honors Digital Electronics AND Honors Principles of Engineering | |
| | 11th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Drafting II Engineering |
| | | Career Path Courses: | Honors Computer Integrated Manufacturing Engineering | |
| | 12th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Trade & Industrial Advance Studies, Drafting III Engineering |
| | | Career Path Courses: | Honors Engineering Design & Development | |

Secondary to Postsecondary Linkages & Certifications

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|---|--|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Electronics I = ETC 112 DC/AC Electricity Principles of Business & Finance=BUS 125 Personal Finance Articulated University College Credit Available: Project Lead the Way participating colleges and universities at www.pltw.org . *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): |

| Postsecondary Programs Available | | |
|--|-------------------------|---|
| Postsecondary Education Opportunities | Certificate | Architectural Technology Certificate with a Specialization in Computer Aided Design/Drafting Architectural Technology Certificate with a Specialization in Residential Architectural Technology |
| | Associate Degree | Civil Engineering Technology (AAS) Electronics Engineering Technology (AAS) |
| | Bachelor Degree | Civil Engineering (BS) Aerospace Engineering (BS) Electrical Engineering (BS) Mechanical Engineering (BS) Environmental Engineering (BS) Industrial Engineering (BS) Material Engineering (BS) Engineering Management (BS) |
| | Graduate Degree | Civil Engineering (MS) Industrial Engineering (MS) Material Engineering (MS) Mechanical Engineering (MS) Aerospace Engineering (MS) Electrical Engineering (MS) Engineering Management (MS) Environmental Engineering (MS) |

Cluster Overview: The **Science, Technology, Engineering and Math Career Cluster** prepares students in planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

Extended Learning Experiences


Curricular Experiences:

Skills USA

Work-Based Learning Experiences:

Job Shadowing Opportunities
Internships

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| | |
|---|---|
|  | Career Major: Project Lead the Way Engineering |
| | Monroe High |

Career Options: Electrical Engineering, Electronics Engineering, Mechanical Engineering, Civil Engineering, Aerospace Engineering, Mechanical Engineering
 For more options, visit the US Bureau of Labor Statistics at <http://www.bls.gov/oco/>

Suggested High School Courses

| | | | | |
|---|------------------------|-------------------------------|--|---|
| High School *Future Ready Example | 9th | Core Academic Courses: | English I, Algebra I, Earth or Environmental Science, World History, Health & Physical Education | Recommended Enhancement Courses: Computer Applications I and Fundamentals of Technology |
| | | Career Path Courses: | Principles of Business & Finance AND Honors Introduction to Engineering Design | |
| | 10th | Core Academic Courses: | English II, Geometry, Biology, Civics and Economics | Recommended Enhancement Courses: Foreign Language I and Drafting I |
| | | Career Path Courses: | Honors Digital Electronics AND Honors Principles of Engineering | |
| | 11th | Core Academic Courses: | English III, Algebra II, Physical Science, US History | Recommended Enhancement Courses: Foreign Language II, Drafting II Architecture |
| | | Career Path Courses: | Honors Civil Engineering & Architecture | |
| | 12th | Core Academic Courses: | English IV, Fourth Math, Lab-based Science Elective | Recommended Enhancement Courses: Trade & Industrial Advance Studies , Drafting III Architecture |
| | | Career Path Courses: | Honors Engineering Design & Development | |

Secondary to Postsecondary Linkages & Certifications

| | |
|---|--|
| UCPS Recognition for Advanced Learning | Postsecondary Credit Options: Articulated Community College Credit Available: Electronics I = ETC 112 DC/AC Electricity Principles of Business & Finance=BUS 125 Personal Finance Articulated University College Credit Available: Project Lead the Way participating colleges and universities at www.pltw.org . *Please see your local school guidance counselor for other college credit opportunities |
| | Industry Recognized Certificate(s) or License(s): |

| Postsecondary Programs Available | | |
|--|-------------------------|---|
| Postsecondary Education Opportunities | Certificate | Architectural Technology Certificate with a Specialization in Computer Aided Design/Drafting Architectural Technology Certificate with a Specialization in Residential Architectural Technology |
| | Associate Degree | Civil Engineering Technology (AAS) Electronics Engineering Technology (AAS) |
| | Bachelor Degree | Civil Engineering (BS) Aerospace Engineering (BS) Electrical Engineering (BS) Mechanical Engineering (BS) Environmental Engineering (BS) Industrial Engineering (BS) Material Engineering (BS) Engineering Management (BS) |
| | Graduate Degree | Civil Engineering (MS) Industrial Engineering (MS) Material Engineering (MS) Mechanical Engineering (MS) Aerospace Engineering (MS) Electrical Engineering (MS) Engineering Management (MS) Environmental Engineering (MS) |

Cluster Overview: The **Science, Technology, Engineering and Math Career Cluster** prepares students in planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

Extended Learning Experiences

Curricular Experiences:

Skills USA

Work-Based Learning Experiences:

Job Shadowing Opportunities
Internships

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