The Future of CTE

CTE & Innovation Department

Equity • Quality • Collaboration • Community
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CTE Month

Equity • Quality • Collaboration • Community

#CTEMonth | isbe.net/cte
CTE Endorsement Areas and Clusters

- Agriculture, Food, and Natural Resources (AFNR)
  - Agriculture, Food, and Natural Resources

- Arts and Communication (A&C)
  - Arts, Audio/Video Technology and Communication

- Finance and Business Services (FBS)
  - Business Management and Administration, Finance, Marketing, Hospitality and Tourism

- Health Sciences and Technology (HST)
  - Health Sciences

- Human and Public Services (HPS)
  - Education and Training, Government and Public Administration, Law, Public safety, Corrections, and Security, Human Services

- Information Technology (IT)
  - Information Technology

- Manufacturing, Engineering, Technology and Trades (METT)
  - Architecture and Construction, Manufacturing, STEM, Transportation, Distribution, and Logistics, Energy

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## New Programs for SY21

### Arts and Communication
- 10.0301 - Graphic Communications, General.

<table>
<thead>
<tr>
<th>AFNR</th>
<th>01.0000 - Agricultural Biotechnology</th>
<th>01.0401 - Food Products and Processing Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Financial and Business Services</td>
<td>52.0201 - Business Administration and Management, General.</td>
<td>52.0903 - Tourism and Travel Services Management</td>
</tr>
<tr>
<td>Health Science and Technology</td>
<td>51.1004 - Clinical/Medical Laboratory Technician</td>
<td>51.2605 - Physical Therapy Technician/Aide.</td>
</tr>
<tr>
<td>Human and Public Services</td>
<td>19.0601 - Housing and Human Environments, General</td>
<td>43.0109 - Security and Loss Prevention Services.</td>
</tr>
<tr>
<td>Information Technology</td>
<td>11.0201 - Computer Programming/Programmer, General.</td>
<td>11.0701 - Computer Science</td>
</tr>
<tr>
<td></td>
<td>49.0205 - Truck and Bus Driver/Commercial Vehicle Operator and Instructor.</td>
<td></td>
</tr>
</tbody>
</table>

### Financial and Business Services
- 01.0000 - Agricultural Biotechnology
- 01.0401 - Food Products and Processing Systems
- 52.0201 - Business Administration and Management, General.
- 52.0301 - Accounting
- 52.0801 - Finance, General.
- 52.0903 - Tourism and Travel Services Management
- 52.0904 - Hotel/Motel Management
- 52.1001 - Human Resources Management/Personnel Administration, General
- 52.1401 - Marketing/Marketing Management, General.

### Health Science and Technology
- 51.1004 - Clinical/Medical Laboratory Technician

### Human and Public Services
- 19.0601 - Housing and Human Environments, General
- 19.0901 - Apparel and Textile, General
- 22.0302 - Legal Assistant/Paralegal.
- 43.0109 - Security and Loss Prevention Services.
- 44.0401 - Public Administration
- 44.0701 - Social Work.

### Information Technology
- 11.0201 - Computer Programming/Programmer, General.
- 11.0701 - Computer Science

### Manufacturing, Engineering, Technology and Trades
- 49.0205 - Truck and Bus Driver/Commercial Vehicle Operator and Instructor.
New Programs for SY22

- Air Force JROTC/ROTC (Government and Public Administration)
- Army JROTC/ROTC (Government and Public Administration)
- Navy/Marine Corps JROTC/ROTC (Government and Public Administration)
- Real Estate (Marketing)
Educator Pathway Grant

The CTE Education Pathway Grant was first released in FY20
• EFEs, Community Colleges, and State Universities with CTE programs could apply
• The objective of the grant was to create or improve Education/Training Pathways
• The grant was scored of the following metrics:
  • Need, Capacity, Quality, Sustainability and Cost-Effectiveness
  • Priority points were given for Rural Schools and Schools 70% and below of EBF funding

<table>
<thead>
<tr>
<th>FY 20</th>
<th>FY21</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 29 districts</td>
<td>• 42 districts,</td>
</tr>
<tr>
<td>• 36 High Schools</td>
<td>• 59 high schools</td>
</tr>
<tr>
<td>• 3 Area Career Centers</td>
<td>• 4 Area Career Centers</td>
</tr>
<tr>
<td>• 2 community colleges</td>
<td>• 2 community colleges</td>
</tr>
</tbody>
</table>
The Future of AFNR Education
How are AFNR programs changing today?

- New additions and expansions to the AFNR Approved Course Matrix available on www.ISBE.net/CTE. AFNR Curriculum available on MyCAERT.com Online Library.

New Courses for SY22!
- Agricultural Entrepreneurship
- Advanced BSAA (both Plant and Animal)
- Foundational SAE (Exploring Work-based Learning)
- Agricultural Government
- Agricultural and Biological Engineering (ABE)
- Agricultural Engine Maintenance
- Agricultural Electrical Systems
- Turfgrass and Sports Field Management
- Basic Environmental Science
- Basic Agricultural Business
- Basic Biotechnology
- Agricultural Economics
- Global Agriculture
- Specialty Crop Production
- Agricultural Engineering

Expansive FREE Curriculum Library!
- General AFNR
- Animal Biology 5E Outline
- Plant Biology 5E Outline
- Agricultural PSTS
- Basic BSAA (Applied Biological Science)
- Consumer Education
- Horticulture 5E Outline
- Agribusiness Under Revision
- Animal, Plant and Soil Science
- Biotechnology Systems
- Entrepreneurship
- Middle School/Agricultural Literacy
- Natural Resources and Environmental Systems
- Basic PSAA (Applied Physical Science)
# Cutting Edge Careers – Student Conference

<table>
<thead>
<tr>
<th>What is it?</th>
<th>Virtual student conference that highlights a different CTE Endorsement area each day. Student will have the ability to join live session, or recorded sessions.</th>
</tr>
</thead>
<tbody>
<tr>
<td>When is it?</td>
<td>May 3rd-7th</td>
</tr>
<tr>
<td>What is offered?</td>
<td>Sessions will include presentations by industry leaders, Student Success Stories, along with information and assistance on employability skills.</td>
</tr>
</tbody>
</table>
Work-based Learning Continuum

Career Awareness Activities
Activities that provide an opportunity for students to explore available career pathways and opportunities.
- Exploration of the 17 Career Clusters/Areas
- Career Day/Fair
- Career Advising
- Employability Skills

Career Exploration Activities
Activities that provide an opportunity to engage directly with employers, for the purpose of gaining knowledge of one or more industry sectors or occupations.
- Worksite Tours
- Job Shadowing
- Mentorships
- Career-related Service Learning

Career Development Experiences
Supervised work experience related to student’s career area of interest.
- Work placement, or virtual/simulated work experience
- Includes career-related instruction
- Aligns to criteria established in the Career Development Experience Toolkit
Career Exploration and Career Development Experience

- Career guide [https://isbe.net/cte](https://isbe.net/cte)
- Northern Illinois University [https://edsystemsniu.org/resources/career-development-experience-toolkit/](https://edsystemsniu.org/resources/career-development-experience-toolkit/)
- Graduate Profile [https://user-myczicl.cld.bz/CTE-Graduate-adapted-by-April](https://user-myczicl.cld.bz/CTE-Graduate-adapted-by-April)
CTE Pathway Endorsements

Individual Plan
Each student completing an endorsement must have an individualized plan, which includes college planning linked to early understanding of career goals, financial aid, resume, and personal statement.

Professional Learning
Awareness, exploration, and preparation activities that provide opportunities for students to interact with adults in their workplace.
- At least 2 career exploration activities or 1 intensive experience
- At least 2 team-based challenges with adult mentoring

Career-focused Instructional Sequence
Two years of secondary coursework, or equivalent competencies, that articulate to a postsecondary credential with labor market value. Must include at least 6 hours of early college credit.

Academic Readiness
Ready for non-remedial coursework in reading and math by high school graduation through criteria defined by district and local community college.

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Workplace Learning:
• includes a practicum work experience component tied to a student's individualized program of study.
• includes direct instruction on essential and technical employability skills relevant to students' specific employment.
• instruction must be provided by a CTE teacher that meets the required qualifications to teach WPE

Types of Workplace Experience include:
• Student-led Enterprises
• School-based Enterprises
• Immersion Supervised Agricultural Experiences
• Clinical Experiences in Health Science and Technology programs
• Internships
• Apprenticeship programs including Youth Apprenticeships, Pre-apprenticeships, and Registered Apprenticeships
Cooperative Education vs. Workplace Experience Courses

<table>
<thead>
<tr>
<th>Cooperative Education</th>
<th>Workplace Experiences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paid Placement only</td>
<td>Paid or unpaid placement</td>
</tr>
<tr>
<td>In-person experiences only</td>
<td>In-person, virtual or simulated experiences</td>
</tr>
<tr>
<td>Should be related to the student’s program of study and/or career goals</td>
<td>Must be related to the student’s program of study and/or career goal</td>
</tr>
<tr>
<td>Job Placement</td>
<td>Flexible format to align to Career Development Experiences</td>
</tr>
<tr>
<td>Generic course codes for all student participating</td>
<td>Specialized course codes to reflect student’s placement</td>
</tr>
<tr>
<td>Required coursework (parallel or alternating)</td>
<td>Required coursework (meeting at least once per week)</td>
</tr>
<tr>
<td>Should have an individual student learning plan and evaluation</td>
<td>Must have an individual student learning plan and evaluation</td>
</tr>
</tbody>
</table>
# Workplace Experience Courses

Workplace Experience courses will be available at both the Program/CIP and the Cluster level.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Workplace Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>17998A003</td>
<td>Architecture &amp; Construction Workplace Experience</td>
</tr>
<tr>
<td>11998A002</td>
<td>Arts, Audio/Video Technology &amp; Communications Workplace Experience</td>
</tr>
<tr>
<td>12098A002</td>
<td>Business, Management &amp; Administration Workplace Experience</td>
</tr>
<tr>
<td>19198A003</td>
<td>Education &amp; Training Workplace Experience</td>
</tr>
<tr>
<td>12148A003</td>
<td>Finance Cluster Workplace Experience</td>
</tr>
<tr>
<td>15248A002</td>
<td>Government &amp; Public Administration Workplace Experience</td>
</tr>
<tr>
<td>14998A002</td>
<td>Health Science Workplace Experience</td>
</tr>
<tr>
<td>16998A001</td>
<td>Hospitality &amp; Tourism Workplace Experience</td>
</tr>
<tr>
<td>19998A003</td>
<td>Human Services Workplace Experience</td>
</tr>
<tr>
<td>10998A002</td>
<td>Information Technology Workplace Experience</td>
</tr>
<tr>
<td>15998A001</td>
<td>Law, Public Safety, Corrections &amp; Security Workplace Experience</td>
</tr>
<tr>
<td>13998A002</td>
<td>Manufacturing Workplace Experience</td>
</tr>
<tr>
<td>12198A002</td>
<td>Marketing Workplace Experience</td>
</tr>
<tr>
<td>21998A001</td>
<td>Science, Technology, Engineering &amp; Mathematics Workplace Experience</td>
</tr>
<tr>
<td>20998A002</td>
<td>Transportation, Distribution &amp; Logistics Workplace Experience</td>
</tr>
<tr>
<td>21098A002</td>
<td>Energy Workplace Experience</td>
</tr>
</tbody>
</table>

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Career and Technical Student Organizations (CTSO)

- Business Professionals of America (BPA)
- FBLA - Future Business Leaders of America
- FCCLA - Family, Career and Community Leaders of America
- FFA - Illinois Association
- Illinois DECA, Inc.
- Illinois HOSA - Future Health Professionals
- SkillsUSA Illinois
- TSA - Technology Student Association

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Model Programs of Study

https://edsystemsniu.org/model-programs-of-study-guides/

https://www.isbe.net/cte
<table>
<thead>
<tr>
<th></th>
<th>Completed</th>
<th>In Progress</th>
</tr>
</thead>
</table>
| ICCB and NIU’s Education Systems Center | • Education  
• Health Sciences and Technology  
• Information Technology  
• Manufacturing and Engineering | • Agriculture, Food, and Natural Resources  
• Financial and Business Services  
• Arts and Communication  
• Architecture and Construction |
| Illinois State Board of Education | • Education  
• Nursing  
• Cybersecurity  
• Machining | • Agriculture, Food, and Natural Resources  
• Business Management  
• Finance  
• Graphic Communication  
• Construction Trades  
• Automobile Technician  
• Marketing |
New CTE Teaching Endorsements

New CTE Endorsements will provide greater flexibility

<table>
<thead>
<tr>
<th>CTE Licensing Endorsement</th>
<th>CTE Program</th>
<th>Course Assignability</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTE Workplace Experience Coordinator (WBL)</td>
<td>• All</td>
<td>• All CTE Workplace Experience courses</td>
</tr>
<tr>
<td>Business Management (FBS)</td>
<td>• Business Management &amp; Administration (52.0201)</td>
<td>• All courses in programs listed (52.0201; 52.0701; 52.0401)</td>
</tr>
<tr>
<td></td>
<td>• Entrepreneurship/Entrepreneurial Studies (52.0701)</td>
<td></td>
</tr>
<tr>
<td>Human Resources (FBS)</td>
<td>• Human Resources Management/Personnel Administration (52.1001)</td>
<td>• All courses in programs listed (52.1001; 52.0401)</td>
</tr>
<tr>
<td>Administrative Assistant (FBS)</td>
<td>• Administrative Assistant and Secretarial Sciences (52.0401)</td>
<td>• All courses in programs listed (52.0401)</td>
</tr>
<tr>
<td>Finance (FBS)</td>
<td>• Finance, General (52.0801)</td>
<td>• All courses in programs listed (52.0801; 52.0301)</td>
</tr>
<tr>
<td></td>
<td>• Accounting (52.0301)</td>
<td></td>
</tr>
<tr>
<td>Marketing (FBS)</td>
<td>• Marketing (52.1401)</td>
<td>• All courses in programs listed (52.1401)</td>
</tr>
<tr>
<td>Real Estate (FBS)</td>
<td>• Real Estate (52.1501)</td>
<td>• All courses in programs listed (52.1501)</td>
</tr>
<tr>
<td>Information Technology (IT)</td>
<td>• Computer Programming/Programmer, General (11.0201)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Computer Science (11.0701)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Web Page, Digital/Multimedia and Information Resources Design (11.0801)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Computer Networking (11.0901)</td>
<td></td>
</tr>
<tr>
<td>Agriculture, Food, and Natural Resources (AFNR)</td>
<td>• Biotechnology Systems (01.0000)</td>
<td>• All courses in programs listed (01.0000; 01.0101; 01.0201; 01.0601; 01.0401; 01.0901; 15.0507; 03.0101)</td>
</tr>
<tr>
<td></td>
<td>• Agribusiness Systems (01.0101)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Power, Structural and Technical Systems (01.0201)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Plant Systems (01.0601)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Food Products and Processing Systems (01.0401)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Animal Systems (01.0901)</td>
<td></td>
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<td></td>
<td>• Environmental Service Systems (15.0507)</td>
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<tr>
<td></td>
<td>• Natural Resource Systems (03.0101)</td>
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</table>
CTE and Remote Learning Resources

- #KeepLearning Continuing Education Resources: https://www.isbe.net/keeplearning
- ILCTE Resources: https://ilcte.org/
- ISBE’s CTE Curriculum Resources: https://www.isbe.net/Pages/cte-curriculum.aspx
- Super Strategies and Special Populations: https://icsps.illinoisstate.edu/15-cte/76-super-strategies
- Universal Design for Learning: https://icsps.illinoisstate.edu/cte/universal-design-learning
Professional Learning Opportunities

• Career Connections and Counselors’ Academy: http://ilcareerconnections.org/
• Ag Ed Spring Professional Learning Series hosted by IAVAT https://www.ilaged.org/messagedetails.aspx?ID=900
Questions?

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