



**SECONDARY PERKINS DATA  
REPORTED IN THE MOSIS SYSTEM**

**Connie O'Brien, Supervisor, CTE Data Collection  
Office of Data Systems Management**

April 25, 2012

Missouri Department of Elementary and  
Secondary Education

## Agenda

2

- Student Classifications
- Career Pathways
- Career Cluster - CTE Program Code Crosswalk
- CTE Technical Skill Attainment (CTE TSA)
- Nontraditional Classifications
- Single Parent & Displaced Homemaker
- Perkins Accountability Reports
- Web Addresses



3

## Student Classifications

The discussion will be on the student classifications for Career Education Perkins requirements.



## Perkins Secondary Student Classifications

4

- This data is submitted via the MOSIS June Student Core in the “CareerEd” field.
  - NHS
    - Student who has earned NO CTE credit in grades 9-12.
  - LTO
    - Student who has earned (accumulated) some CTE credit in grades 9-12
    - Not a Participant or Concentrator in reporting year.
    - PHS the previous year but earned no CTE credit in the reporting year.



## Perkins Secondary Student Classifications (Continued)

5

- PHS
  - Student who has earned (accumulated) a minimum of 1 CTE credit in a Department-approved career education program area.
    - Earned part or all CTE credit(s) in the reporting year.
- CHS
  - Student who has earned (accumulated) a minimum of 3 CTE credits (sequential) in a Department-approved career education program area.
    - Earned part or all CTE credit(s) in the reporting year.
- CNP
  - Student who has earned (accumulated) a minimum of 3 CTE credits (sequential) in a Department-approved career education program area.
    - NOT earning any CTE credit in the reporting year.



6

## Career Pathways

The discussion will be on Career Pathway examples for deciding whether or not a student is a concentrator.



## Career Pathways

7

- The following are examples of Career Cluster Pathways for each program area.
  - The pathways have the same requirements as the definition “sequence of courses”.



Agriculture, Food & Natural Resources Career Cluster							Cluster #01
<b>Middle School Course</b>							
016700 - Exploring Agriculture							
<b>High School Core Career Education Courses Taken in Sequential Order</b>							
<b>Foundation Courses</b>							
016710 - Agricultural Science I							
016760 - Agricultural Science II							
Courses within the designated Career Pathway (In Non-Sequential Order)							
01.0101 Agricultural Business & Management Systems	01.0201 Agricultural Mechanics & Technology Systems	01.0601 Plant Science/ Horticulture Systems	01.0401 Food Science Systems	03.0101 Natural Resources Conservation Systems	01.0901 Animal Science Systems	01.9999 Curriculum for Agricultural Science Education	
<b>Core Courses</b>	<b>Core Courses</b>	<b>Core Courses</b>	<b>Core Courses</b>	<b>Core Courses</b>	<b>Core Courses</b>	<b>Core Courses</b>	
016730 - Agricultural Management & Economics 016741 - Agricultural Sales & Marketing 016742 - Agricultural Communications	016720 - Agricultural Structures 016751 - Agricultural Power I 016752 - Agricultural Power II 016753 - Agricultural Machinery 016770 - Agricultural Construction	016743 - Biotechnology 016761 - Crop Science 016763 - Floriculture 016764 - Landscaping 016765 - Greenhouse Operation & Management 016766 - Nursery 016767 - Turf Management	016790 - Food Science & Technology	016759 - Conservation of Natural Resources 016762 - Forestry Management	016711 - Animal Science 016743 - Biotechnology 016744 - Equine Science 016745 - Veterinary Science	016800 - Intro. to Agric. Food & Natural Resources 016801 - Princ. of Ag Science Animal 016802 - Princ. of Ag Science Plant 016803 - Animal & Plant Biotechnology 016804 - Natural Resources & Environmental Science	
<b>Elective Courses</b>	<b>Elective Courses</b>	<b>Elective Courses</b>	<b>Elective Courses</b>	<b>Elective Courses</b>	<b>Elective Courses</b>	<b>Elective Courses</b>	
016780 - Supervised Agricultural Experience Co-op	016742 - Agricultural Communications 016780 - Supervised Agricultural Experience Co-op	016742 - Agricultural Communications 016780 - Supervised Agricultural Experience Co-op	016742 - Agricultural Communications 016780 - Supervised Agricultural Experience Co-op 096827 - Food Science (FCS)	016742 - Agricultural Communications 016780 - Supervised Agricultural Experience Co-op	016742 - Agricultural Communications 016780 - Supervised Agricultural Experience Co-op	016742 - Agricultural Communications 016780 - Supervised Agricultural Experience Co-op	
All courses include classroom/laboratory instruction, Supervised Agricultural Experiences (SAE), and leadership training through the appropriate Career and Technical Student Organization (CTSO).							
Technical Skill Assessments (Career Development Events) by Career Pathway							
*Farm Management *Agricultural Sales	*Agricultural Mechanics	*Agronomy *Nursery/Landscaping *Soils Evaluation *Floriculture **Grasslands Evaluation	*Meats Evaluation *Poultry Evaluation *Dairy Foods Evaluation	*Forestry *Soils Evaluation **Grasslands Evaluation	*Dairy Cattle Evaluation *Poultry Evaluation *Horse Evaluation *Livestock Evaluation *Meats Evaluation	**MU/MDA Livestock Judging & Grading Event **MVMA-Animal Care Technology (ACT)	
*Career Development							
**Industry							

<b>Architecture and Construction Career Cluster</b>			<b>Cluster #02</b>
<b>Middle School Course</b>			
096800 - Discovering Family and Consumer Sciences 096802 - Career Exploration (Grades 5-12) 100426 - Exploring Architecture and Construction			
<b>High School Core Career Education and Supporting Courses</b>			
096801 - Career and Family Leadership 096818 - Housing Environments and Design 096840 - Family/Individual Health (Meets Graduation Requirement) 096803 - Career Development/Entrepreneurship 996400 - Personal Finance (Meets Graduation Requirement) <b>105424 - Construction Technology [NON CAREER ED COURSE]</b> <b>105431 - Architectural Structures and Design Technology [NON CAREER ED COURSE]</b>			
<b>Courses within the designated Career Pathway (In Non-Sequential Order)</b>			
<b>Design and Pre-Construction</b>	<b>Maintenance/Operations</b>	<b>Construction</b>	
171300 - Drafting and Design Technology 096818 - Housing Environments and Design 096832 - Apparel and Textiles, General 096835 - Home Furnishings and Equipment Installers 096836 - Facilities Planning and Management 096839 - Family and Consumer Sciences Cooperative Education 096837 - Family Consumer Sciences Internship	170100 - Air Conditioning, Heating, Refrigeration 171100 - Custodial Services 171101 - Building Maintenance 171501 - Electrical and Electronics Equipment Repair, General 171008 - Plumbing 096818 - Housing Environments and Design 096835 - Home Furnishings and Equipment Installers	170305 - Painter and Wallcoverer 170603 - Ironworking/Ironworker 170609 - Construction Technology 171001 - Carpentry 171002 - Electrician 171004 - Masonry 171008 - Plumbing 171400 - Electrical and Power Transmission Installation/Installer 173600 Cabinetmaking and Millwork	
<p>All courses/programs include classroom/laboratory instruction and leadership training through the appropriate Career and Technical Student Organization (CTSO). Course/programs may include work-based instructional experience in Trade and Industrial Supervised Employment (170090).</p>			
			
			9

<b>Arts, AV Technology and Communications Career Cluster</b>			<b>Cluster #03</b>
<b>Middle School Courses</b>			
100427 - Exploring Communications Technology			
<b>High School Supporting Courses (NOT CAREER EDUCATION COURSES)</b>			
105430 - Drafting and Design Technology 105432 - Video Production Technology 105433 - Engineering Graphics Technology 105435 - Introduction to Communication 105441 - Communications Electronics Technology 105492 - Graphic Communications Technology			
<b>Courses within the designated Career Pathway (In Non-Sequential Order)</b>			
<b>Printing Technology</b>	<b>Visual Arts</b>	<b>Journalism and Broadcasting</b>	
170700 - Commercial Art Occupations 171900 - Graphic Arts Occupations	170700 - Commercial Art Occupations 170900 - Commercial Photography Occupations 171300 - Drafting and Design Technology 096832 - Apparel and Textile, General 096846 - Fashion Design	170108 - Radio and Television Broadcasting Technology/ Technician	
<p>All courses/programs include classroom/laboratory instruction and leadership training through the appropriate Career and Technical Student Organization (CTSO). Courses/programs may also include work-based instructional experience in Trade and Industrial Supervised Employment (170090).</p>			
			
			10

<b>Business Management and Administration, Finance, and Information Technology Career Clusters</b>		
<b>Elementary School Course</b>		
034390 - Keyboarding/Computers		
<b>Middle School Course</b>		
034390 - Keyboarding/Computers 100429 - Exploring Information Technology 991010 - Exploring Business Careers		
<b>High School Supporting Courses (NOT CAREER EDUCATION COURSES)</b>		
034390 - Keyboarding/Computers 034322 - Business Math		
<b>Courses within the designated Career Pathway (In Non-Sequential Order)</b>		
<b>Business Management &amp; Administration</b>	<b>Finance</b>	<b>Information Technology</b>
034037 - E-Business* 034205 - Legal Administrative Assistant 034206 - Medical Administrative Assistant 034300 - Introduction to Business 034301 - Business Management 034305 - Entrepreneurship 034310 - Accounting I 034312 - Accounting II 034320 - Business Communication 034321 - Business Law 034330 - Business Technology 034352 - Computer Applications 034380 - Supervised Business Experience 034391 - International Business* 996400 - Personal Finance	034037 - E-Business* 034300 - Introduction to Business 034303 - Banking & Financial Services 034310 - Accounting I 034312 - Accounting II 034320 - Business Communication 034321 - Business Law 034330 - Business Technology 034332 - Business Economics 034352 - Computer Applications 034380 - Supervised Business Experience 034391 - International Business* <b>096814 - Family and Consumer Resource Management</b> 996400 - Personal Finance	034037 - E-Business* 034205 - Legal Administrative Assistant 034206 - Medical Administrative Assistant 034330 - Business Technology 034352 - Computer Applications 034353 - Graphic Arts/Desktop Publishing 034354 - Network Administration 034355 - Computer Programming 034356 - Multimedia 034380 - Supervised Business Experience 034392 - Digital Communications* 034393 - Web Design <b>170102 - Communications Electronics</b> <b>170104 - Computer Installer and Repairer</b> <b>173101 - Computer Servicing Technology</b>
<b>Cluster #04</b>	<b>Cluster #06</b>	<b>Cluster #11</b>
<p>All courses/programs include classroom/laboratory instruction and leadership training through the appropriate Career and Technical Student Organization (FBLA). *The course will no longer be an approved career education course starting in the 2012-2013 school year. Shaded areas are courses taught in other program area.</p>		
		
11		

<b>Health Science Career Cluster</b>			
<b>Cluster #08</b>			
<b>High School Core Career Education and Supporting Courses</b>			
096824 Nutrition and Wellness 096840 Family/Individual Health			
<b>Courses within the designated Career Pathway (In Non-Sequential Order)</b>			
<b>Therapeutic Services</b>	<b>Diagnostic Services</b>	<b>Health Information</b>	<b>Biomedical</b>
070901 - Dental Assistant 070903 - Dental Laboratory Technician 070904 - Dental Services, Other 070906 - Health Service Aide 070907 - Emergency Medical Technology Technician 070917 - Medical Assistant	070913 - Medical Laboratory Assistant 070929 - Medical Laboratory Technology	070927 - Health Information/Medical Records Technology 070933 - Medical Transcription	070411 - Principles of Biomedical Science 070412 - Human Body Systems 070413 - Medical Intervention 070414 - Biomedical Innovations
<p>All courses/programs include classroom/laboratory instruction and leadership training through the appropriate Career and Technical Student Organization (CTSO). Courses/programs may also include clinical internship experience as a component of instruction.</p>			
			
12			

<b>Hospitality and Tourism Career Cluster</b>		
<b>Cluster #09</b>		
<b>Middle School Course</b>		
096800 - Discovering Family and Consumer Sciences		
<b>High School Core Career Education and Supporting Courses</b>		
096801 - Career and Family Leadership 096814 - Family/Consumer Resource Management 096840 - Family/Individual Health (Meets Graduation Requirement) 996400 - Personal Finance (Meets Graduation Requirement)		
<b>Courses within the designated Career Field (In Non-Sequential Order)</b>		
<b>12.0500</b> <b>Restaurants and Food/Beverage Services Core</b>	<b>52.0904</b> <b>Lodging</b>	<b>52.0903</b> <b>Travel &amp; Tourism</b>
096803 - Career Development/Entrepreneurship 096804 - Culinary Arts/Chef Training 096805 - Restaurant, Culinary and Catering Management 096815 - ProStart I 096816 - ProStart II 096824 - Nutrition and Wellness 096827 - Food Science 096829 - Foods, General 096833 - Food Preparation/Professional Cooking/ 096839 - FCS Internship 096844 - Foodservice Administration Kitchen Assistant 040018 - Hospitality Management	096818 - Housing Environments & Design 096836 - Facilities Planning & Management* 096839 - FCS Internship 096839 - FCS Related Occupations Coop 040017 - Travel and Tourism 040018 - Hospitality Management*	096839 - FCS Internship 096839 - FCS Related Occupations Coop 040017 - Travel and Tourism 040018 - Hospitality Management
<p>All courses/programs include classroom/laboratory instruction and leadership training through the appropriate Career and Technical Student Organization (CTSO). Students may also participate in an internship as a part of the ProStart Program, Year Two. To experience the workplace, students are encouraged enroll in either Family and Consumer Sciences Cooperative Education or Family and Consumer Sciences Internship for any of the pathways.</p> <p>A technical skills assessment is to be taken after a student becomes a concentrator and completes a program. By definition, a concentrator is a student who has earned three or more sequential credits in any state-approved CTE program grades 9-12. It is a local decision to determine the sequence; therefore, it is a local decision to determine when a student becomes a concentrator and completes a program.</p> <p>*Core Requirements</p>		
13		

<b>Human Services Career Cluster</b>				
<b>Middle School Course</b>				
096800 Discovering Family and Consumer Sciences 096802 Career Exploration (Grades 5-12)				
<b>High School Core Career Education</b>				
096801 Career and Family Leadership 096840 Family/Individual Health (Meets Graduation Requirement) 996400 Personal Finance (Meets Graduation Requirement) 096814 Family/Consumer Resource Management				
<b>Courses within the designated Career Pathway</b>				
<b>Human Development</b>	<b>Family and Community Services</b>	<b>Consumer Services</b>	<b>Personal Care Services</b>	<b>Education and Training</b>
096828 Human Development*	096828 Human Development*	996400 Personal Finance*	096900 Cosmetology*	096828 Human Development; and/or 096821 Child Development 096826 Child Development, Advanced (Need 1 credit)
096821 Child Development *	096814 Family/Consumer Resource Management*	096814 Family/Consumer Resource Management	096900 Cosmetology II*	*096842 Career Pathways for the Teaching Profession (1 credit)
096826 Child Development, Advanced*	096823 Family Living and Interpersonal Relationships	034303 Banking & Financial Services*		
<b>Options</b>	<b>Options</b>	<b>Options</b>	<b>Options</b>	<b>Options</b>
096824 Nutrition and Wellness	096826 Child Development	096803 Career Development/Entrepreneurship	096902 Nail Technician Specialist & Manicurist	096824 Nutrition and Wellness
096830 Parenting	096824 Nutrition and Wellness	096818 Housing Environments and Design	096824 Nutrition and Wellness	
096823 Family Living and Interpersonal Relationships	096827 Food Science	096839 FCS Related Occupations Coop	096803 Career Development/Entrepreneurship	
096803 Career Development/Entrepreneurship	096839 FACS Related Occupations Coop	096825 Apparel & Textile Marketing Management	096839 FCS Related Occupations Coop	
096837 Family Consumer Sciences Internship	096837 Family Consumer Sciences Internship	096837 Family Consumer Sciences Internship	096837 Family Consumer Sciences Internship	
096831 Early Childhood Professions*	096834 Adult Development and Aging			
<b>Cluster #10</b>	<b>Cluster #10</b>	<b>Cluster #10</b>	<b>Cluster #10</b>	<b>Cluster #05</b>
<p>Courses should provide leadership training by integrating the appropriate Career and Technical Student Organization (CTSO) concepts. To experience the workplace, students are encouraged enroll in either Family and Consumer Sciences Cooperative Education or Family and Consumer Sciences Internship for any of the pathways.</p> <p>A technical skills assessment is to be taken after a student becomes a concentrator and completes a program. By definition, a concentrator is a student who has earned three or more sequential credits in any state-approved CTE program grades 9-12. It is a local decision to determine the sequence; therefore, it is a local decision to determine when a student becomes a concentrator and completes a program.</p> <p>*Core Requirements</p>				
14				

<b>Law, Public Safety, and Security Career Cluster</b>		<b>Cluster #12</b>
<b>Courses within the designated Career Pathway (In Non-Sequential Order)</b>		
Emergency and Fire Management Services	Security and Protective Services/Law Enforcement Services	
172801 - Fire Control and Safety Technology 172803 - Fire Science/Firefighting	170613 - Criminal Justice Technology 172802 - Law Enforcement Training	
<p>All courses/programs include classroom/laboratory instruction and leadership training through Career and Technical Student Organization (CTSO). Courses/programs may also include work-based instructional experience in Trade and Industrial Supervised Employment (170090).</p>		
15		

<b>Manufacturing Career Cluster</b>			<b>Cluster #13</b>
<b>Middle School Courses</b>			
100430 - Exploring Manufacturing			
<b>High School Supporting Courses (NOT CAREER EDUCATION COURSES)</b>			
105421 - Industrial Ceramics Technology 105422 - Industrial Plastics Technology 105423 - Manufacturing Technology 105470 - Industrial Metals Technology 105482 - Industrial Woods Technology			
<b>Coursework within designated Career Pathway (In Non-Sequential Order)</b>			
Production	Manufacturing Production Process Development	Maintenance, Installation, and Repair	
170602 - Industrial/Manufacturing Technology/ Technician 172302 - Machinist 172305 - Sheet Metal 172306 - Welding Technology 172307 - Tool and Die Making 172310 - Manufacturing Technology/Technical 172399 - Metal Fabrication	170602 - Industrial/Manufacturing Technology/ Technician 171300 - Drafting and Design Technology 171501 - Electrical and Electronics Equipment Repair, General	170103 - Industrial Equipment Maintenance Repair 170602 - Industrial/Manufacturing Technology/ Technician 171007 - Pipefitting 171400 - Electrical and Power Transmission, Install 171500 - Industrial Electronics 171501 - Electrical and Electronics Equipment Repair, General 172302 - Machinist 172305 - Sheet Metal 172310 - Manufacturing Technology/Technical 172399 - Metal Fabrication	
<p>All courses include classroom/laboratory instruction and leadership training through the appropriate Career and Technical Student Organization (CTSO). Students may also participate in Trade and Industrial Supervised Employment (170090).</p>			
16			

<b>Marketing Career Cluster</b>		<b>Cluster #14</b>
<b>Middle School Course</b>		
096800 - Discovering Family and Consumer Sciences		
<b>High School Core Career Education and Supporting Courses</b>		
096801 - Career and Family Leadership		
096802 - Career Exploration		
096803 - Career Development/Entrepreneurship		
096814 - Family/Consumer Resource Management		
096818 - Housing Environments and Design		
<b>103408 - Enterprise (NON CAREER ED COURSE)</b>		
<b>Courses within the designated Career Pathway (In Non-Sequential Order)</b>		
<b>52.1401 Marketing</b>		
040001 - Fundamentals of Marketing 040002 - Advanced Marketing 040005 - Management 040006 - Retailing 040007 - Salesmanship* 040008 - Business Administration 040009 - Advertising 040010 - Business Ownership & Management* 040011 - Entrepreneurship 040012 - Free Enterprise/ Economics 040013 - Fashion Merchandising 040014 - Sports and Entertainment Marketing 040015 - Internet Marketing* 040019 - Leadership in the Workplace 040080 - Supervised Marketing Education Employment	096820 - Apparel and Textiles Intermediate 096822 - Apparel and Textiles, Advanced 096825 - Apparel and Textile Marketing 096832 - Apparel and Textile, General 096839 - FCS Related Occupations Coop 096846 - Fashion Design	
All courses/programs include classroom/laboratory instruction and leadership training through the appropriate Career and Technical Student Organization (DECA). *The course will no longer be an approved career education course starting in the 2012-2013 school year. Shaded areas are courses taught in other program areas.		
<b>17</b>		

<b>Science, Technology, Engineering and Mathematics Career Cluster</b>		<b>Cluster #16</b>
<b>Middle School Courses</b>		
100403 - Gateway to Engineering (grades 6-8)		
100423 - Invention & Innovations (grades 6-8)		
100428 - Exploratory Engineering		
<b>High School Supporting Courses (NOT CAREER EDUCATION COURSES)</b>		
105401 - Biotechnology Engineering		
105402 - Interdisciplinary Approaches to Technology		
105405 - Introduction to Technology		
105406 - Research and Development		
105407 - Engineering Technology Education		
105409 - Technology Problem Solving		
105425 - Engineering Materials Technology		
105440 - Electricity/Electronics Technology		
105442 - Technology Systems Control		
105450 - Exploration of Technology (9-12)		
<b>Courses within the designated Career Pathway (In Non-Sequential Order)</b>		
<b>Engineering and Technology</b>	<b>Technology &amp; Engineering (formerly PLTW)</b>	
170201 - Civil Engineering 170203 - Architectural Design and Construction Technology 170206 - Electrical, Electronic and Communications Engineering Technology 170207 - Biomedical Engineering-Related Technology 170208 - Electromechanical Technology 170212 - Laser and Optical Technology/Technician 170623 - Industrial Design	100404 - Principles of Engineering 100405 - Introduction to Engineering Design 100406 - Digital Electronics 100407 - Computer Integrated Manufacturing 100408 - Civil Engineering and Architecture 100409 - Biomedical Engineering 100410 - Aerospace Engineering 100422 - Engineering Design & Development	
All courses/programs include classroom/laboratory instruction and leadership training through the appropriate Career and Technical Student Organization (CTSO). Courses/programs may also include work-based instructional experience in Trade and Industrial Supervised Employment (170090).		
<b>18</b>		

Transportation, Distribution and Logistics Career Cluster		<i>Cluster #16</i>
<b>Middle School Courses</b>		
100431 - Exploring Transportation & Distribution		
<b>High School Supporting Courses (NOT CAREER EDUCATION COURSES)</b>		
105410 - Introduction to Energy & Power 105411 - Power Mechanics Technology 105414 - Transportation Systems		
<b>Courses within the designated Career Pathway (In Non-Sequential Order)</b>		
Facility and Mobile Equipment Maintenance	Transportation Systems/Infrastructure Planning, Management, and Regulation	
170301 - Auto Body Repair 170302 - Auto Mechanics 170303 - Motorcycle Mechanics and Repair 170401 - Aircraft Mechanics, Airframe 170402 - Aircraft Mechanics, Powerframe 170616 - Heavy Equipment Maintenance and Repair 171200 - Diesel Mechanics 172200 - Marine Maintenance 173100 - Small Engine Repair	170622 - Aviation Management	
All courses/programs include classroom/laboratory instruction and leadership training through the appropriate Career and Technical Student Organization (CTSO). Courses/programs may also include work-based instructional experience in Trade and Industrial Supervised Employment (170090).		
19		

20

## Career Cluster – CTE Program Code Crosswalk

The discussion will be on the Career Clusters in relation to Career Education Program Codes.



## Career Clusters – CTE Program Code Crosswalk

21

- This data is submitted via the MOSIS June Student Core in the “CTECluster” field.
- The CTECluster is a reflection of what the credit(s) students have earned in their primary field of study (“CTEprogramcode”).

*A new rule was implemented in the MOSIS system that will not allow any career cluster to be reported with the wrong career education program code.*

- 0104 - Agricultural Education
  - Cluster # 01
- 0204 - Business Education
  - Cluster #s 04, 06, 11



## Career Clusters – CTE Program Code Crosswalk (continued)

22

- 0404 – Marketing Education
  - Cluster # 14
- 0504 – Health Sciences
  - Cluster # 8
- 0604 – Family Consumer Sciences
  - Cluster #s 09, 10
- 0704 – Occupational Family Consumer Sciences
  - Cluster #s 05, 09, 10
- 0804 – Skilled Technical Sciences (T&I)
  - Cluster #s 02, 03, 11, 12, 13, 15, 16
- 1004 – Technology & Engineering
  - Cluster # 15



23

## CTE Technical Skill Attainment (TSA)

The discussion will be on the CTE Skill  
Attainment reporting.



## CTE Technical Skill Attainment

24

- This data is submitted via the MOSIS June Student Core in the “CTETSA” field.
  - To measure technical skill attainment, a third-party, industry-recognized skill assessment is required to be given to concentrators who completed a department-approved career education program. Results of the TSA will be reported in the MOSIS June Student Core submission the year the test was taken and each following year until the student leaves the institution.



## TSA Codes

25

- TSA reporting codes
  - FT – a concentrator who completed a Department-approved CTE program and failed the technical skill assessment.
  - NA – A concentrator who was eligible to take a technical skill assessment but an assessment was not available for the student (i.e. no assessment was available for the a specified program area.)
  - NE – A concentrator who was not eligible to take a technical skill assessment (i.e. coursework required to complete the program is greater than three credits. Example: A welding program that is a two-year program requiring six credits for program completion)



## TSA Codes (continued)

26

- NT – A concentrator who was eligible to take a technical skill assessment and the assessment was available but the student did not take the assessment (i.e. sick the day of testing.)
- PR – A concentrator who took a technical skill assessment; however, there are pending results .
- PT – a concentrator who completed a Department-approved CTE program and passed the technical skill assessment.



## TSA Contacts

27

- You can locate the complete approved TSA list at -  
[http://www.dese.mo.gov/divcareered/perkins\\_iv\\_tsa.htm](http://www.dese.mo.gov/divcareered/perkins_iv_tsa.htm)
- For further clarification you may contacted
  - Kristie Davis, (573)526-4987 or [kristie.davis@dese.mo.gov](mailto:kristie.davis@dese.mo.gov)
  - Agricultural, Food & Natural Resources
    - Leon Busdieker, (573) 522-6538 or [leon.busdieker@dese.mo.gov](mailto:leon.busdieker@dese.mo.gov)
  - Business, Marketing & Information Technology
    - Kristie Davis, (573) 751-4367 or [kristie.davis@dese.mo.gov](mailto:kristie.davis@dese.mo.gov)
  - Family Consumer Sciences & Human Services
    - Cynthia Arendt, (573) 751-2644 or [cynthia.arendt@dese.mo.gov](mailto:cynthia.arendt@dese.mo.gov)
  - Technology, Health and Skilled Technical Sciences
    - Gavin Allan, (573) 751-2584 or [gavin.allan@dese.mo.gov](mailto:gavin.allan@dese.mo.gov)



28

## Nontraditional Classifications

The discussion will be on the student  
classifications for nontraditional reporting.



## Nontraditional Classifications

29

- This data is submitted via the MOSIS June Student Core in the “NonTradStudent” field.

*A new rule was added to the MOSIS system, in 2011, which insures that the correct gender is marked Yes with the appropriate CTE program code.*

- 0104 - Agricultural Education
  - Females - “Y” for yes
  - Males - “N” for no
- 0204 - Business Education
  - Females & Males - “N” for no
- 0304 - Cooperative Career Education
  - Females & Males - “N” for no



## Nontraditional Classifications (continued)

30

- 0404 - Marketing Education
  - Females & Males - “N” for no
- 0504 - Health Sciences
  - Females - “N” for no
  - Males - “Y” for yes
- 0604 - Family Consumer Sciences
  - Females - “N” for no
  - Males - “Y” for yes
- 0704 - Occupational Family Consumer Sciences
  - Females - “N” for no
  - Males - “Y” for yes



## Nontraditional Classifications (continued)

31

- 0804 - Skilled Technical Sciences (*formerly T&I*)
  - Females - "Y" for yes
  - Males - "N" for no
- 1004 - Technology & Engineering (*formerly PLTW*)
  - Females - "Y" for yes
  - Males - "N" for no



32

## Single Parent & Displaced Homemaker

The discussion will be on the student classifications for single parent or displaced homemaker.



## Single Parent

33

- This data is submitted via the MOSIS June Student Core in the “SingleParent” field.
  - Single Parent
    - An individual who is unmarried or separated from their spouse and is pregnant or has sole or joint custody of a minor child or children.



## Displaced Homemaker

34

- This data is submitted via the MOSIS June Student Core in the “DisplacedHomemaker” field.
  - Displaced Homemaker
    - An individual who has worked primarily without remuneration to care for a home and family and for that reason has diminished marketable skills; or has been dependent on the income of another family member but is no longer supported by that income; or is a parent whose youngest dependent child will become ineligible to receive assistance under social security; and is unemployed or underemployed and is experiencing difficulty in obtaining or upgrading employment.



35

## Perkins Accountability Reports

The will be on the various Perkins  
Accountability Reports available.



## Perkins Accountability Reports

36

- All Perkins accountability reports, for public review, are available in Missouri Comprehensive Data System (MCDS) Portal.
  - Consortium Level
  - District Level
  - State Level



This screenshot shows the homepage of the Missouri Department of Elementary and Secondary Education (DESE) website. The browser window is titled "Missouri Department of Elementary and Secondary Education - Windows Internet Explorer" and the address bar shows "http://www.dese.mo.gov/index.html". The page features a navigation menu with categories such as "Adult Learning & Rehab. Services", "College & Career Readiness", "Communications & Media", "Data System Management", "Early & Extended Learning", "Educator Quality", "Financial & Admin. Services", "Governmental Affairs", "Quality Schools", and "Special Education". A "Features" section highlights "Summer Jobs+ 2012" with a graphic of a sun and gears, and text about post-summer employment opportunities. A "News & Updates" section lists recent news items, including an Education Commissioner attending a summit and funding for school transportation. A "Quick Links" section includes "Core Academic Standards", "Electronic Mailbag", "Web Applications", "MOSIS", "GLE CLE", "MSIP Missouri School Improvement Program", and "ESEA Flexibility Waiver". A "Memos" section lists recent updates, and a "Quick Links" sidebar provides access to the "A-Z Index" and "About Us".

This screenshot shows the "Welcome" page of the Missouri Comprehensive Data System (MCDS). The browser window is titled "Missouri Comprehensive Data System - Welcome - Windows Internet Explorer" and the address bar shows "http://mcds.dese.mo.gov/Pages/default.aspx". The page features a navigation menu with "HOME", "DISTRICT INFO", "QUICK FACTS", "GUIDED INQUIRY", and "ADVANCED INQUIRY". A "TRAINING CENTER" section is also visible. A "QUICK LINKS" sidebar includes "U.S. Department of Education", "Provide Feedback", "dese.mo.gov", "Top 10 by 20", "School Directory", "DESE Web Applications", and "Ask DESE". The main content area displays a grid of icons for "Accountability", "College and Career", "Early Childhood Education", "Education Staff", "Special Education", "State Assessment", and "Student Characteristics". A "Student Characteristics" section provides information about demographic data for public, charter, and state-operated schools. A "Welcome to the new Missouri Comprehensive Data System" message explains that the MCDS is a new resource for accessing education-related data. A "Data Update Announcement" section notes that a new educator credential report is available as of 3/9/2012 4:00 PM.

Missouri Comprehensive Data System - College and Career - Windows Internet Explorer

http://mcds.dese.mo.gov/guidedinquiry/Pages/Career-Education.aspx

HOME | DISTRICT INFO | QUICK FACTS | GUIDED INQUIRY | ADVANCED INQUIRY

TRAINING CENTER

GUIDED INQUIRY

Accountability

College and Career

District and School Information

Early Childhood Education

Education Staff

Special Education

State Assessment

Student Characteristics

Home > Guided Inquiry > College and Career

### College and Career

College and Career Guided Inquiry

#### Perkins

Type	Name	Description
Folder	Adult	
Folder	Postsecondary	
Folder	Secondary	

#### District and Building Graduation and Dropout Indicators

Type	Name	Description
Report	District Graduation Rates	District graduation rates. Includes total graduates and race breakouts.
Report	Building Graduation Rates	Building graduation rates. Includes total graduates and race breakouts.
Report	District Graduate Analysis	District graduate analysis. Includes placement status on previous year's graduates.
Report	Building Graduate Analysis	Building graduate analysis. Includes placement status on previous year's graduates.
Report	District Annual Dropout Rate	District dropout information. Includes total dropouts and race breakouts.

Missouri Comprehensive Data System - College and Career - Windows Internet Explorer

http://mcds.dese.mo.gov/guidedinquiry/Pages/Career-Education.aspx?RootFolder=%2FguidedInquiry%2FPerk

District and School Information

Early Childhood Education

Education Staff

Special Education

State Assessment

Student Characteristics

College and Career Guided Inquiry

#### Perkins

Type	Name	Description
Report	1S1 Academic Attainment Communication Arts	1S1 measures the percentage of CTE concentrators who score in the top two achievement levels of English II end of course (EOC) assessment and left secondary education during the reporting year.
Report	1S2 Academic Attainment Mathematics	1S2 measures the percentage of CTE concentrators who score in the top two achievement levels of Algebra I EOC assessment and left secondary education during the reporting year.
Report	2S1 Secondary Technical Skill Attainment	2S1 measures the percentage of CTE concentrators who passed technical skill assessments aligned industry-recognized standards, if available and appropriate, during the reporting year.
Report	3S1 Secondary Completion	3S1 measures the percentage of secondary CTE concentrators who graduated or earned a GED during reporting year.
Report	4S1 Graduation Rate	4S1 measures the percentage of CTE concentrators who graduate over four years (grades 9-12).
Report	5S1 Secondary Placement	5S1 measures the percentage of CTE concentrators who were placed in postsecondary education or advanced training, in the military or employment in the second quarter following the program year in they graduated or received a GED.
Report	6S1 Participation in Secondary Nontraditional Programs	6S1 measures the percentage of CTE participants from underrepresented gender groups enrolled in nontraditional career education programs.
Report	6S2 Completion in Secondary Nontraditional Programs	6S2 measures the percentage of CTE concentrators from the underrepresented gender groups who completed and graduated from nontraditional career education program.
Report	Secondary Concentrator Career Clusters	Concentrator 16 Career Clusters measures the number of CTE concentrators who are placed in their primary field of study and their career cluster.
Report	Secondary Participation Enrollment	Participation Enrollment measures the number of CTE students who have earned one or more credits in any Department-approved career education program area.

#### District and Building Graduation and Dropout Indicators

Type	Name	Description
Report	District Graduation Rates	District graduation rates. Includes total graduates and race breakouts.
Report	Building Graduation Rates	Building graduation rates. Includes total graduates and race breakouts.
Report	District Graduate Analysis	District graduate analysis. Includes placement status on previous year's graduates.

41 Perkins Core Indicators



42 Core Indicators

- Enrollment/Participation
  - Calculated from all students reported as a PHS or CHP
- Concentrators – 16 Career Clusters
  - Calculated from all students reported as a CHS or CNP
- All core indicators (*except 6S1 – Nontraditional Participation*)
  - Calculated from students reported as
    - CHS or CNP
    - Left secondary education
      - Graduated
      - Dropped out
      - Expelled
      - Deceased



## Core Indicators

43

- 1S1 – Academic Attainment – Reading/Language Arts
- 1S2 – Academic Attainment – Mathematics
- 2S1 – Technical Skill Attainment
- 3S1 – Completion
- 4S1 – Student Graduation Rate
- 5S1 – Placement
- 6S1 – Nontraditional Participation
  - Calculated from all students reported as PHS or CHS
- 6S2 – Nontraditional Completion



## Web Addresses

44

- Career Education
  - <http://www.dese.mo.gov/divcareered/>
- Perkins Help Documents
  - [http://www.dese.mo.gov/divcareered/perkins\\_iv\\_help.htm](http://www.dese.mo.gov/divcareered/perkins_iv_help.htm)
- Technical Skill Assessment List
  - [http://www.dese.mo.gov/divcareered/perkins\\_iv\\_tsa.htm](http://www.dese.mo.gov/divcareered/perkins_iv_tsa.htm)



Thank You

45

## Contact Information

If you have questions , contact Connie  
O'Brien at (573) 751-3524 or by  
email at [connie.obrien@dese.mo.gov](mailto:connie.obrien@dese.mo.gov)

