AGRICULTURE, FOOD AND NATURAL RESOURCES CAREER CLUSTER DESIGN
Comprehensive Agricultural Science Pathway

CIP CODE 01.9999

APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.

2. Includes a work-based element.

3. Consist of a sequence:
   - Introductory-level course.
   - Technical-level course.
   - Application-level course.

4. Supporting documentation includes:
   - Articulation Agreement(s).
   - Certification.
   - Program Improvement Plan.
   - Program of Study.

5. Technical-level and Application-level courses receive.5 state weighted funding in an approved CTE pathway.

INTRODUCTORY LEVEL

Title	Code	Credit
✴● Introduction to Agriculture	18001	1
✴● Exploratory Agriculture	68001	1

TECHNICAL LEVEL

Must choose at least **TWO** of the courses in this level.

Title	Code	Credit
Agriscience	18002	1
Horticulture	18052	1
Plant and Soil Science	18058	1
Animal Science	18101	1
Plant and Animal Science	18301	1
Agricultural Food Science	18305	1
Biotechnology in Agriculture	18308	1
Natural Resource Management	18504	1

APPLICATION LEVEL

Title	Code	Credit
Internship	18048	1
Advanced Internship	18049	1
Agricultural Business	18201	1
Agricultural Entrepreneurship	18202	1
Agricultural Leadership and Communications	18203	1
Research in Agriculture	18206	1
Advanced Plant and Animal Science	18302	1

✴ Required courses in pathway approval.

● Must choose **ONE** of the required courses in Introductory Level for pathway approval.

AGRICULTURE, FOOD AND NATURAL RESOURCES CAREER CLUSTER DESIGN

Power, Structural and Technical Systems Pathway

CIP CODE 01.0201

AGRICULTURE, FOOD & NATURAL RESOURCES

APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.

2. Includes a work-based element.

3. Consist of a sequence:
   - Introductory-level course.
   - Technical-level course.
   - Application-level course.

4. Supporting documentation includes:
   - Articulation Agreement(s).
   - Certification.
   - Program Improvement Plan.
   - Program of Study.

5. Technical-level and Application-level courses receive.5 state weighted funding in an approved CTE pathway.

INTRODUCTORY LEVEL

Title	Code	Credit
∗ ● Introduction to Agriculture	18001	1
∗ ● Exploratory Agriculture	68001	1

TECHNICAL LEVEL

Title	Code	Credit
Agriscience	18002	1
∗ ● Agricultural Mechanics	18401	1
∗ ● Agricultural Welding I	18404/39207	1
∗ ● Small Engines	18410	1

APPLICATION LEVEL

Title	Code	Credit
Internship	18048	1
Advanced Internship	18049	1
Agricultural Business	18201	1
Agricultural Entrepreneurship	18202	1
Agricultural Leadership and Communications	18203	1
Research in Agriculture	18206	1
∗ ● Advanced Agricultural Mechanics	18402	1
∗ ● Agricultural Structures	18403	1
∗ ● Agricultural Welding II	18407/39208	1
∗ ● Agricultural Fabrication	18409	1
∗ ● Advanced Agricultural Power	18411	1

∗ Required courses in pathway approval.

● Must choose **ONE** of the required courses in each level for pathway approval.

BUSINESS MANAGEMENT AND ADMINISTRATION CAREER CLUSTER DESIGN
Business Management and Entrepreneurship Pathway

CIP CODE 52.0799

APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.

2. Includes a work-based element.

3. Consist of a sequence:
   - Introductory-level course.
   - Technical-level course.
   - Application-level course.

4. Supporting documentation includes:
   - Articulation Agreement(s).
   - Certification.
   - Program Improvement Plan.
   - Program of Study.

5. Technical-level and Application-level courses receive.5 state weighted funding in an approved CTE pathway.

INTRODUCTORY LEVEL

Title	Code	Credit
* ⮌ Business Essentials	12050	0.5

TECHNICAL LEVEL

Title	Code	Credit
* Business Communications	12009	0.5
* Business Management	12052	0.5
* Entrepreneurship	12053	0.5

OPTIONAL TECHNICAL LEVEL
SUPPORTIVE BUSINESS AND ENTREPRENEURSHIP

Title	Code	Credit
Business Law	12054	0.5
IB Business and Management	12059	1
Accounting	12104	1
Business Economics	12105	0.5
Principles of Marketing	12164	1
Consumer and Personal Finance	22210	0.5

● SUPPORTIVE ENTREPRENEURSHIP

Title	Code	Credit
Web Page Design	10201	1
Computer Graphics	10202	1
CAM	13204	1
Culinary Essentials	16052	0.5
Carpentry	17002	1
Remodel and Building Maintenance	17009	0.5
AgriScience	18002	1
Ag Welding (and/or 39207)	18404	1
Foundations of Early Childhood	19052	1
Engineering Design and Development	21007	1
Drafting/CAD	21107	1
Digital Marketing	35162	0.5
Production Welding (and/or 18404)	39207	1
General Service I	40150	1
Auto Collision	40300	1

■ APPLICATION LEVEL

Title	Code	Credit
* Business Management and Entrepreneurship Workplace Experience	12098	0.5/1
Advanced Business Management and Entrepreneurship Workplace Experience	32998	1
* Applied Business Development	32200	1

⮌   Business Essentials 12050 may be integrated with Computer Applications 10004.

✳   Required course for pathway approval.

●   Students may take up to **ONE CREDIT** of Supportive Entrepreneurship Technical courses to become a completer and/or concentrator in the Business Management and Entrepreneurship Pathway.

■   School may include both in pathway - student only takes **ONE** for completer status. Either 12098 or 32200 Required course for pathway approval.

EDUCATION AND TRAINING CAREER CLUSTER DESIGN
Teaching/Training Pathway

CIP CODE 13.0101

APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.

2. Includes a work-based element.

3. Consist of a sequence:
   - Introductory-level course.
   - Technical-level course.
   - Application-level course.

4. Supporting documentation includes:
   - Articulation Agreement(s).
   - Certification.
   - Program Improvement Plan.
   - Program of Study.

5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

INTRODUCTORY LEVEL

Title	Code	Credit
Introduction to Family and Consumer Sciences	19251	1
Career and Life Planning	19258	0.5

TECHNICAL LEVEL

Title	Code	Credit
* Teaching as a Career	19151	1
Educational Leadership and Training A	19154	0.5
Education Research and Innovation	19155	0.5
🏃 Family Studies	19255	0.5
Teaching Observation	42251	0.5

Must choose at least **ONE** of these technical level courses for pathway approval.

Title	Code	Credit
* 🏃 Human Growth and Development - Early Years	45004	0.5
* 🏃 Lifespan Development	45014	0.5

APPLICATION LEVEL

Title	Code	Credit
Teaching Internship	19152	1
Educational Leadership and Training B	19198	0.5

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*   Required course for pathway approval.

🏃   Alternate course Orientation to Early Childhood Development (19051) may be allowed with prior approval.

FINANCE CAREER CLUSTER DESIGN
Business Finance Pathway

CIP CODE 52.0801

APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.

2. Includes a work-based element.

3. Consist of a sequence:
   • Introductory-level course.
   • Technical-level course.
   • Application-level course.

4. Supporting documentation includes:
   • Articulation Agreement(s).
   • Certification.
   • Program Improvement Plan.
   • Program of Study.

5. Technical-level and Application-level courses receive.5 state weighted funding in an approved CTE pathway.

INTRODUCTORY LEVEL

Title	Code	Credit
* Business Essentials	12050	0.5

TECHNICAL LEVEL

Title	Code	Credit
* Accounting	12104	1
* Consumer and Personal Finance	22210	0.5

OPTIONAL SUPPORTIVE COURSES

Title	Code	Credit
Business Economics	12105	0.5
Business Communications	12009	0.5
Business Law	12054	0.5
Entrepreneurship	12053	0.5
Advanced Spreadsheet Applications	33110	0.5

APPLICATION LEVEL

● **FINANCIAL INSTITUTIONS AND SERVICES STRAND**

Title	Code	Credit
Banking and Finance	12101	0.5
Investing	12107	0.5
Risk Management and Insurance	12106	0.5

● **ACCOUNTING STRAND**

Title	Code	Credit
Advanced Accounting	33108	1
College Accounting	33109	1

OPTIONAL SUPPORTIVE COURSES

Title	Code	Credit
■ Finance - Workplace Experience	12148	0.5
■ Finance - Workplace Experience	12148	1
Advanced Finance - Workplace Experience	33200	1

* Required courses for pathway approval.

● **ONE CREDIT** from at least one strand is required.

■ School may include both in pathway. Student only takes one for completer status.

HEALTH AND BIO SCIENCES CAREER CLUSTER DESIGN
Health Science Pathway

CIP CODE 51.9999

APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.

2. Includes a work-based element.

3. Consist of a sequence:
   - Introductory-level course.
   - Technical-level course.
   - Application-level course.

4. Supporting documentation includes:
   - Articulation Agreement(s).
   - Certification.
   - Program Improvement Plan.
   - Program of Study.

5. Technical-level and Application-level courses receive.5 state weighted funding in an approved CTE pathway.

INTRODUCTORY LEVEL

Title	Code	Credit
* Introduction to Health Care	14000	0.5
Biology	03051	1
Chemistry	03101	1

TECHNICAL LEVEL

Title	Code	Credit
Nutrition and Wellness	19253	0.5
* Anatomy and Physiology	03053	1
📄 EMS First Responder	44050	0.5
Medical Terminology	14154	0.5
Health Information (HIT)	14157	1
AP Biology	03056	1
Health Care Research and Clinical Skills A	14254	0.5
Health Care Research and Clinical Skills B	36254	1

GENERAL HEALTH STRAND (PA, MED)

Title	Code	Credit
Fundamentals of Emergency Services	14055	0.5
Medical Interventions	14105	1

SPORTS MED/REHABILITATION STRAND (ATC, PT, OT)

Title	Code	Credit
📄 Physical Therapy	14060	1
📄 Care of Athletes	14062	0.5
📄 Sports Medicine I	14072	1

ALLIED HEALTH STRAND (Nursing, X-Ray, EMT, Lab Sciences)

Title	Code	Credit
Medical Imaging	14103	0.5
📄 Pharmacology	14253	1
📄 Emergency Medical Tech (EMT)	44060	1

APPLICATION LEVEL

Title	Code	Credit
📄 Certified Medication Aide	36156	0.5
📄 Certified Nursing Assistant	14997	0.5/1
Heath Care Work Experience	36992	1
Heath Care Work Experience	36993	2

GENERAL HEALTH STRAND (PA, MED)

Title	Code	Credit
📄 Phlebotomy Technician	14104	0.5

SPORTS MED/REHABILITATION STRAND (ATC, PT, OT)

Title	Code	Credit
📄 Sports Medicine II	14073	1

ALLIED HEALTH STRAND (Nursing, X-Ray, EMT, Lab Sciences)

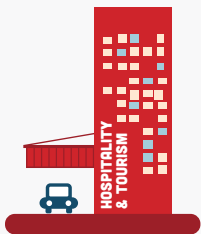| Title	Code	Credit
📄 Phlebotomy Technician	14104	0.5
📄 Home Health Aide	36053	0.5
📄 Dental Assistant	36054	1
📄 Pharmacy Technician	36157	1
📄 # Emergency Medical Tech II (EMT II)	44065	1

*   Required course for pathway approval.

\#   Has a prerequisite Emergency Medical Tech (44060).

📄   Courses may require specialized teacher certification and/or offer professional certification.

HOSPITALITY AND TOURISM CAREER CLUSTER DESIGN

Restaurant and Event Management Pathway

CIP CODE 12.0504

APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.

2. Includes a work-based element.

3. Consist of a sequence:
   - Introductory-level course.
   - Technical-level course.
   - Application-level course.

4. Supporting documentation includes:
   - Articulation Agreement(s).
   - Certification.
   - Program Improvement Plan.
   - Program of Study.

5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

INTRODUCTORY LEVEL

Title	Code	Credit
Business Essentials	12050	0.5
Introduction to Family and Consumer Sciences	19251	1
Career and Life Planning	19258	0.5

TECHNICAL LEVEL

Select a strand at division.

Title	Code	Credit
* Culinary Essentials	16052	0.5
Nutrition and Wellness	19253	0.5

EVENT PLANNING AND MANAGEMENT STRAND

Title	Code	Credit
Foundations of Travel and Tour	16151	0.5
❶ Event Planning and Management	34052	0.5

CULINARY ARTS AND MANAGEMENT STRAND

Title	Code	Credit
❶ Culinary Arts	16053	1
# Culinary Arts II	16055	0.5
Baking and Pastry I	16056	0.5
# Baking and Pastry II	16057	0.5
Food Science	19254	1
Event Planning and Management	34052	0.5

These courses may be offered after **THREE** credits in the Technical Level have been selected:

Title	Code	Credit
Entrepreneurship	12053	0.5
Principles of Marketing	12164	1

APPLICATION LEVEL

EVENT PLANNING AND MANAGEMENT STRAND

Title	Code	Credit
Community Connections	19297	0.5
Career Connections	19298	0.5
Applied Business Development	32200	1

CULINARY ARTS AND MANAGEMENT STRAND

Title	Code	Credit
Culinary Workplace Experience	16098	1
Community Connections	19297	0.5
Career Connections	19298	0.5

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* Required course for pathway approval.

\# Has a prerequisite course(s):

Courses comprising a sequence are numbered consecutively. See Competency Profile for details.

Culinary Arts (16053) is a prerequisite for Culinary Arts II (16055).

❶ Required course in the strand.

HUMAN SERVICES CAREER CLUSTER DESIGN
Family, Community and Consumer Services Pathway

CIP CODE 19.0799

APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.

2. Includes a work-based element.

3. Consist of a sequence:
   - Introductory-level course.
   - Technical-level course.
   - Application-level course.

4. Supporting documentation includes:
   - Articulation Agreement(s).
   - Certification.
   - Program Improvement Plan.
   - Program of Study.

5. Technical-level and Application-level courses receive.5 state weighted funding in an approved CTE pathway.

INTRODUCTORY LEVEL

Title	Code	Credit
Introduction to Family and Consumer Sciences	19251	1
Career and Life Planning	19258	0.5

TECHNICAL LEVEL

Title	Code	Credit
Culinary Essentials	16052	0.5
Nutrition and Wellness	19253	0.5
* Family Studies	19255	0.5
Leadership Service in Action	19257	0.5
Relationships and Personal Development	19260	0.5
* Consumer and Personal Finance	22210	0.5
● Human Growth and Development - Early Years	45004	0.5
● Lifespan Development	45014	0.5

APPLICATION LEVEL

Title	Code	Credit
# Community Connections	19297	0.5
# Career Connections	19298	0.5

*   Required course for pathway approval.

\#   Has a prerequisite of **ONE** credit within Human Services Pathway courses.

●   Must choose at least **ONE** of these Technical Level courses for pathway approval.