

CareerTech

OCAS Subject Codes
July 1, 2018 – June 30, 2019

*career***tech**

Oklahoma Department of Career & Technology Education

OCAS Subject Codes for FY19 – COURSES

Agriculture Education

OCAS Subject Codes for FY19 - COURSES

8000 AGRICULTURE EDUCATION

8001	Agricultural Exploration and Orientation (One year program)	C
8004	Introduction to Agriscience	C
8005	Agriscience II	C
8006	Introduction to Plant and Soil Science	C
8007	Agriculture Crop Production	C
8008	Advanced Biological Plant Science	C
8009	Introduction to Agricultural Power and Technology	C
8010	Agricultural Power and Technology	C
8011	Agricultural Structures	C
8012	Introduction to Animal Science	C
8013	Livestock Production	C
8014	Small Animal Care and Veterinary Assisting	C
8015	Equine Science	C
8016	Advanced Biological Animal Science	C
8017	Introduction to Food Science	C
8018	Food and Biotechnology	C
8019	Introduction to Agribusiness Management	C
8020	Agricultural Sales and Marketing	C
8021	Employment in Agribusiness (Senior Course Only)	C
8022	Introduction to Agricultural Communications	C
8023	Agricultural Leadership and Personal Development	C
8024	Print and Broadcast Journalism in Agricultural Communication	C
8025	Introduction to Natural Resources and Environmental Science	C
8026	Pasture and Range Management	C
8027	Wildlife Science and Management	C
8028	Forestry	C
8029	Introduction to Horticulture	C
8030	Greenhouse Production and Floral Design	C
8031	Landscape and Nursery Production	C

Business and Information Technology
OCAS Subject Codes for FY19 - COURSES

8100 BUSINESS AND INFORMATION TECHNOLOGY

8101	Business and Computer Technology	OHLAP
8102	Business Information Technology Internship	
8103	Fundamentals of Administrative Technologies	OHLAP
8104	Administrative Technologies II	OHLAP
8105	Office Administration & Management	OHLAP
8106	Career Major Capstone	
8107	Accounting I	
8108	Accounting II	
8109	Computerized Accounting	OHLAP
8110	Payroll Accounting	
8111	Financial Accounting	
8112	Entrepreneurship: Business Development	
8113	Entrepreneurship: Business Management	
8114	Human Resources Concepts	
8115	Employee and Labor Relations	
8118	Business & Personal Finance	
8120	Banking & Financial Services	
8121	Network/Client Operating Systems	OHLAP
8122	Server Operating Systems	OHLAP
8123	Network Management	OHLAP
8124	Fundamentals of Linux/Unix	OHLAP
8125	Routing and Switching I	OHLAP
8126	Routing and Switching II	OHLAP
8127	Telcom and Network Cabling	
8128	Advanced Routing and Remote Access	
8129	Multilayer Switching and Internetwork Support	
8130	Principals of Information Assurance	OHLAP
8131	Network Security	OHLAP
8132	Enterprise Security Management	OHLAP
8133	Secure Electronic Commerce	OHLAP
8134	Cyber Forensics	OHLAP
8136	Computer Repair and Troubleshooting I	OHLAP
8137	Computer Repair and Troubleshooting II	OHLAP
8138	Computer Repair and Troubleshooting III	
8139	Fundamentals of Database Development	OHLAP
8140	Database Design and Programming	OHLAP
8141	SQL and PL/SQL Database Applications Development	OHLAP
8142	Database Administration	OHLAP
8143	Modeling Languages	
8144	Forms Development	OHLAP
8149	Desktop Publishing and Graphic Design	OHLAP
8150	Multimedia & Image Management Techniques	OHLAP
8151	Digital Editing and Production Photography	
8153	Fundamentals of Web Design	OHLAP
8154	Design Tools and Electronic Marketing Strategies	OHLAP
8155	Advanced Design Techniques	OHLAP
8156	Advanced Digital Animation	OHLAP

Business and Information Technology
OCAS Subject Codes for FY19 - COURSES

8100 BUSINESS AND INFORMATION TECHNOLOGY

8157	Web Scripting Foundations	OHLAP
8158	E-Commerce Site Production	
8159	Scripting Language Fundamentals	OHLAP
8160	Advanced Programming	OHLAP
8161	Systems Analysis, Design and Testing	OHLAP
8162	Advanced Scripting Languages	OHLAP
8163	Software Configuration Management	OHLAP
8164	Business Communications & Project Management	
8165	C++ Programming	OHLAP
8166	C# Programming	OHLAP
8167	Visual Basic .NET Programming	OHLAP
8168	User Interface Design	OHLAP
8169	Fundamentals of Technology	OHLAP
8170	Bilingual Interpersonal Communications I	
8177	Business Communications	
8178	Personal Finance	
8179	Introduction to Entrepreneurship	
8180	Math of Finance	
8182	Operating System/Command Line	OHLAP
8183	Planning and Maintaining Server Network Infrastructure	
8184	Active Directory Infrastructure	OHLAP
8185	Server Infrastructure Design	OHLAP
8186	Regulatory Compliance and Auditing	OHLAP
8187	Installing and Maintaining Desktop Applications	
8189	Non-Linear Digital Production	
8190	Advanced Digital Video Tools and Techniques	
8191	Digital Media Production	
8192	Non-Linear Digital Editing	
8193	Audio Production	
8194	Broadcast Production	
8195	Studio Production (IT)	
8196	Remote/Field Production (IT)	
8197	Advanced Effects for Motion Graphics	
8203	Audio Tools and Techniques	
8204	Intermediate Sound Production	
8205	Advanced Animation Techniques	
8206	2D Animation Techniques	
8207	Fundamentals of 3D Motion Graphics	
8208	3D Animation	
8209	3D Modeling and Rigging Techniques	
8210	Web Authoring Languages	
8211	Web Authoring Tools	
8212	Web Application Technologies	
8213	Interactive Marketing Techniques	
8214	Flash Application Development	
8215	Advanced Flash Application Development	
8216	Layout Design Techniques	

Business and Information Technology
OCAS Subject Codes for FY19 - COURSES

8100 BUSINESS AND INFORMATION TECHNOLOGY

8217	Server-Side Scripting	
8218	Web Application Development	
8219	Advanced Computer Applications for the Law office	OHLAP
8220	Principles of Animation	
8221	Event and Project Planning Management	
8222	Programming Fundamentals	
8223	Network Security Awareness	
8224	Cross Platform Game Programming	
8225	Basic Programming	
8226	Resort and Tourism Management	
8227	Business Management for Travel and Tourism	
8228	Fundamentals of Video Game Design	
8229	Customer Assistance	
8230	JAVA Programming	
8231	Non-Linear Editing II	
8232	Video Animation	
8233	Database Administration II	
8234	Awareness of GPS/GIS	
8235	Essential Skills for ArcGIS	
8236	Managing and Analyzing Data using ArcGIS	
8237	Editing, Visualizing and Sharing Data in ArcGIS Software	
8238	Beginning Android Development	
8239	Intermediate Android Development	
8240	Database Administration Fundamentals	
8241	Mobile Development Fundamentals	
8242	Networking Fundamentals	
8243	Web Development Fundamentals	
8244	Windows Server Administration Fundamentals	
8245	Gaming Development Fundamentals	
8246	Security Fundamentals	OHLAP
8247	HTML5 Application Developer Fundamentals	
8248	.NET Fundamentals	
8249	Software Development Fundamentals	
8250	Windows Operating System Fundamentals	
8251	Foundations for the Legal Office	
8252	IT Essentials	OHLAP
8253	Windows Development Fundamentals	
8254	Business Foundations	
8255	Internet of Things (IoT) Fundamentals	OHLAP
8256	Cybersecurity Basics	OHLAP

Family and Consumer Science
OCAS Subject Codes for FY19 - COURSES

8400	FAMILY AND CONSUMER SCIENCE
8403	Parenting & Child Development
8404	Successful Adulthood: Personal Financial Literacy
8405	Nutrition, Food and Wellness
8406	Housing, Furnishings and Design Concepts
8407	Marriage & Family Life
8408	Lead Oklahoma
8409	Teach Oklahoma
8411	Tween Life
8412	Investigate FACS
8413	Overview of the Fashion Industry
8414	Career Orientation
8415	FACS Basics
8419	School and Community Partnership I
8420	School and Community Partnership II
8421	Food Preparation and Nutrition for Life
8422	Early Care Professionals
8425	Textiles and Apparel Assembly
8426	Culinary Basic Skills
8428	Culinary Advanced Skills
8434	FACS Basics A
8435	FACS Basics B
8438	Investigate FACS 30
8439	Investigate FACS 60
8440	Tween Life 30
8441	Tween Life 60
8443	Chemistry of Foods
8446	FACS Ed Capstone
8448	Introduction to Hospitality and Tourism
8449	Successful Adulthood: Surviving and Thriving
8452	Leadership and Management
8456	Tween Life with Personal Financial Literacy
8459	Teaching and Learning in Elementary, Secondary, and Adult Education
8460	Touring Oklahoma
8461	Design Application and Analysis
8465	ECE: Pathway to National Credential
8466	Occupational Basic Design and Custom Sewing
8467	Occupational Intermediate Apparel Design and Custom Sewing
8468	Culinary Arts Internship I
8469	Principles of Human Services
8470	Interpersonal Studies
8471	Human Growth and Development
8472	Food Science
8473	Counseling and Mental Health
8474	Lifetime Nutrition and Wellness

Family and Consumer Science

OCAS Subject Codes for FY19 - COURSES

8400 FAMILY AND CONSUMER SCIENCE

8475 Introduction to Culinary Arts

8476 Culinary Arts

Health Careers

OCAS Subject Codes for FY18 - COURSES

8550 HEALTH CAREERS

- 8551 Health Careers
- 8552 Health Careers II
- 8553 Health Careers III
- 8554 Health Careers Capstone
- 8556 Sports Medicine
- 8557 Biomedical Technology
- 8558 Exercise Science

5220 Physiology

5333 Anatomy

OHLAP

OHLAP

Marketing Education

OCAS Subject Codes for FY19 - COURSES

8600 MARKETING EDUCATION

- 8602 Marketing Fundamentals
- 8605 Customer Service
- 8606 Business Management and Supervision
- 8607 Sales and Sales Promotion
- 8608 Professional Sales
- 8611 Business and Marketing Communications
- 8612 Advertising Strategies
- 8613 Marketing Research
- 8614 Intro to Business/Marketing
- 8615 Marketing Economics
- 8616 Entrepreneurship
- 8617 Advanced Entrepreneurship
- 8618 International Business and Marketing
- 8619 E-Commerce Marketing
- 8620 Entrepreneurship Awareness
- 8621 Public Relations Marketing
- 8622 Marketing Internship
- 8623 Employment Essentials
- 8624 Product & Service Sales
- 8625 Buying and Merchandising
- 8627 Global Markets and Trade
- 8628 Digital Marketing
- 8629 Ethical Leadership

Science, Technology, Engineering & Mathematics
OCAS Subject Codes for FY19 - COURSES

8700	Science, Technology, Engineering, Mathematics	
8701	Survey of Biotechnology	
8702	Biotechnology I	
8703	Biotechnology II	
8704	Advanced Biotechnology I	
8705	Biotechnology Capstone	
8706	PLTW Principles of Biomedical Science	OHLAP
8707	PLTW Human Body Systems	OHLAP
8708	PLTW Medical Interventions	OHLAP
8709	Intro to Engineering Design	OHLAP
8710	Principles of Engineering	OHLAP
8711	PLTW Digital Electronics	OHLAP
8712	PLTW Computer Integrated Manufacturing	OHLAP
8713	PLTW Civil Engineering and Architecture	
8715	PLTW Aerospace Engineering	OHLAP
8716	PLTW Engineering Design and Development	
8717	Advanced Biotechnology II	
8718	Biomedical Health Careers	
8719	PLTW Biomedical Innovation	OHLAP
8801	Tech Engineering 6th Grade	
8825	TE Advanced Technological Applications	
8826	TE Advanced Design Applications	
8827	TE Engineering Design	
8828	TE Foundations of Technology	
8830	PLTW Gateway 6th Grade	
8833	TE Robotics Engineering	
8834	TE Robotics Engineering and Automation	
8835	PLTW Gateway 7th Grade	
8838	PLTW Gateway 8th Grade	
8841	Tech Engineering 7th Grade	
8844	Tech Engineering 8th Grade	
8847	TE Technology and Society	
8848	TE Technological Design	
8849	TE Science and Technical Visualization 1	
8850	TE Science and Technical Visualization 2	
8851	PLTW AP Computer Science Principles	OHLAP
8852	PLTW Computer Science Essentials	
8853	PLTW AP Computer Science Applications	OHLAP
8854	PLTW Environmental Sustainability	OHLAP
8855	The Nature of Science & Technology	
8856	Core Applications of Science & Technology	
8857	Impacts of Science & Technology	
8858	Creativity & Innovations	
8859	Fundamentals of Aerospace Technology	
8860	TE Computer Science Principles	
8861	PLTW Cybersecurity	
8862	Advanced Technology for Design Production	
8863	Systems of Advanced Technology	
8864	Mechatronic Systems for Advanced Production	
8865	Design for the Production of Advanced Products	

Science, Technology, Engineering & Mathematics
OCAS Subject Codes for FY19 - COURSES

8700 Science, Technology, Engineering, Mathematics

8866 CTE STEM Advanced Robotics
8867 TE Computer Science Discoveries

4412	Algebra II	OHLAP
4520	Geometry	OHLAP
4611	Pre-Calculus	OHLAP
4612	Calculus	OHLAP
4615	AP Calculus AB	OHLAP
4616	AP Calculus BC	OHLAP
4750	Trigonometry	OHLAP
4760	AP Statistics	OHLAP
5035	AP Biology	OHLAP
5051	Chemistry	OHLAP
5055	AP Chemistry	OHLAP
5121	AP Environmental Science	OHLAP
5211	Physics	OHLAP
5213	AP Physics I	OHLAP
5214	AP Physics II	OHLAP
5215	AP Physics B	OHLAP
5216	AP Physics C-Mechanics	OHLAP
5217	AP Physics C-Electricity & Magnetism	OHLAP

Trade and Industrial Education
OCAS Subject Codes for FY19 - COURSES

8900	TRADE AND INDUSTRIAL EDUCATION	
8901	Advanced Desktop Publishing and Graphic Design	OHLAP
8902	Advanced Web and Animation Design	OHLAP
8903	Architectural Computer Aided Drafting and Design	OHLAP
8904	Engineering Computer Aided Drafting and Design	OHLAP
8905	Fundamentals of Computer Aided Drafting and Design	OHLAP
8906	Manufacturing Computer Aided Drafting and Design	OHLAP
8907	Tech Connect Automotive	
8908	Tech Connect Automotive Specialized	
8915	Tech Connect Carpentry	
8916	Tech Connect Carpentry Specialized	
8921	Tech Connect Cosmetology	
8922	Tech Connect Cosmetology Specialized	
8929	Tech Connect Welding	
8930	Tech Connect Welding Specialized	
8931	Tech Connect Welding Advanced	
8940	Workforce Connection	
8942	Workforce Staging	
8943	Tech Connect Robotics	
8944	Tech Connect Automation	
8945	Technical Applications I	
8946	Technical Applications II	
8947	Technical Applications III	
8948	Introduction to Aerospace	
8949	Foundations to Aerospace	
8950	Aerospace Structures	
8951	Introduction to Construction	
8952	Foundations to Construction	
8953	Introduction to Manufacturing	
8954	Tech Connect Agriculture, Food and Natural Resources	
8955	Tech Connect Architecture & Construction	
8956	Tech Connect Arts, A/V Technology and Communications	
8957	Tech Connect Information Technology	
8958	Tech Connect Law, Public Safety and Security	
8959	Tech Connect Manufacturing	
8960	Tech Connect Transportation, Distribution and Logistics	
8961	Tech Connect Diversified Programs	
8962	Tech Connect Agriculture, Food and Natural Resources Specialized	
8963	Tech Connect Architecture & Construction Specialized	
8964	Tech Connect Arts, A/V Technology and Communications Specialized	
8965	Tech Connect Information Technology Specialized	
8966	Tech Connect Law, Public Safety and Security Specialized	
8967	Tech Connect Manufacturing Specialized	

Trade and Industrial Education
OCAS Subject Codes for FY19 - COURSES

- 8900 TRADE AND INDUSTRIAL EDUCATION**
- 8968 Tech Connect Transportation, Distribution and Logistics Specialized
- 8969 Tech Connect Diversified Programs Specialized
- 8970 Tech Connect Individual Coop Education

OCAS Subject Codes for FY19 –State Programs

Agriculture, Food and Natural Resources Cluster
FY19 OCAS Subject Codes - STATE PROGRAMS

9000	AGRICULTURE, FOOD AND NATURAL RESOURCES
9001	Agriculture Mechanics
9002	Equine Science
9003	Floriculture
9004	Horticulture
9005	Landscape Design/Maintenance
9007	Service Careers-Landscape Design/Maintenance
9008	Service Careers-Horticulture
9009	Agriculture Mechanics-Specialized
9010	Equine Science - Specialized
9011	Floriculture-Specialized
9012	Landscape Design/Maintenance - Specialized
9014	Service Careers-Horticulture - Specialized
9020	Horticulture - Specialized
9021	Service Careers-Landscape Design/Maintenance-Specialized
9022	Small Animal Care and Grooming
9023	Small Animal Care and Grooming - Specialized

Architecture & Construction Cluster
FY19 OCAS Subject Codes - STATE PROGRAMS

9050	ARCHITECTURE AND CONSTRUCTION
9052	Finish Carpentry
9053	Carpentry
9054	Computer-Aided Drafting - Construction
9055	Construction and Architectural Design Academy
9056	Construction Welding
9057	Electricity
9058	Electrical Trades
9059	Heating, Ventilation, A/C
9061	Heavy Equipment Operator
9065	Masonry
9066	Masonry - Specialized
9067	Plumbing
9069	CNC Woodworking
9071	Service Careers-Maintenance
9073	Service Careers-Forklift Operation
9074	Construction Electronics
9075	Construction Electronics - Specialized
9076	Service Careers-Maintenance-Specialized
9078	Carpentry - Specialized
9080	Heating, Ventilation, A/C - Specialized
9084	Computer-Aided Drafting - Construction - Specialized
9085	Electricity - Specialized
9086	Electrical Trades-Specialized
9089	Heavy Equipment Operator - Specialized
9090	CNC Woodworking - Specialized
9094	Finish Carpentry - Specialized
9095	Plumbing - Specialized
9098	Introduction to Construction Technology
9099	Construction Technology - Specialized
9104	Construction Welding - Specialized
9105	Forklift Operator
9106	Forklift Operator - Specialized
9107	Service Careers Carpentry
9108	Service Careers Carpentry - Specialized
9109	Construction and Architectural Design Academy - Specialized
9110	Service Careers-Forklift Operation - Specialized

Arts, A/V Technology and Communications Cluster
FY19 OCAS Subject Codes - STATE PROGRAMS

9125 ARTS, A/V TECHNOLOGY AND COMMUNICATIONS

- 9127 Audio and Video Technology
- 9130 Commercial Photography
- 9132 Fashion and Apparel Design
- 9133 Graphic Communications
- 9134 Interior Design
- 9136 Printing Technology
- 9140 Web Design and Development
- 9141 Web Design and Development - Specialized
- 9144 Graphic Communications-Specialized
- 9150 Printing Technology - Specialized
- 9151 3D Gaming Designer
- 9152 3D Gaming Designer - Specialized
- 9156 Commercial Photography - Specialized
- 9168 Audio and Video Technology - Specialized
- 9169 Fashion and Apparel Design - Specialized
- 9170 Interior Design - Specialized

Business Management and Administration Cluster

FY19 OCAS Subject Codes - STATE PROGRAMS

- 9200 BUSINESS, MANAGEMENT AND ADMINISTRATION**
- 9202 Administrative Support
- 9204 Court Reporting
- 9205 Customer Service
- 9206 Entrepreneurship-BA
- 9207 Entrepreneurship-BA - Advanced
- 9208 Human Resources Management
- 9209 Human Resources Management - Advanced
- 9210 Administrative Support-Legal
- 9213 Administrative Support-Medical
- 9217 Administrative Support-Legal - Advanced
- 9218 Administrative Support-Medical - Advanced
- 9223 Court Reporting - Advanced
- 9226 Administrative Support - Advanced
- 9230 Business Information Management-Medical
- 9231 Business Information Management-Medical - Advanced
- 9232 Business Information Management
- 9233 Business Information Management - Advanced
- 9234 Customer Service - Advanced

Education and Training Cluster
FY19 OCAS Subject Codes - STATE PROGRAMS

- 9240 EDUCATION AND TRAINING**
- 9241 Teaching/Training
- 9244 Teaching/Training - Specialized

Finance Cluster

FY19 OCAS Subject Codes - STATE PROGRAMS

9250 FINANCE

- 9254 Financial Services
- 9255 Banking Services
- 9258 Accounting
- 9259 Insurance Services
- 9260 Insurance Services - Specialized
- 9266 Accounting - Specialized
- 9267 Banking Services - Specialized
- 9268 Financial Services - Specialized

Health Science Cluster

FY19 OCAS Subject Codes - STATE PROGRAMS

9300	HEALTH SCIENCE
9301	Nursing Services
9302	Respiratory Services
9311	Dental Services
9312	Dental Hygiene
9314	Diagnostic Medical Sonographer
9317	Emergency Medical Services
9318	Paramedic
9321	Health Studies
9323	Licensed Practical Nurse
9326	Medical Services
9329	Behavioral Medicine
9331	Nursing Services - Advanced
9334	Pharmacy Services
9336	Physical Therapy Assistant
9338	Radiologic Technology
9341	Surgical Services
9343	Surgical Technologist (Accredited Program)
9345	Veterinary Services
9346	Vision Care Services
9358	Medical Imaging
9359	Vision Care Services - Advanced
9361	Dental Services - Advanced
9381	Occupational Therapy Assistant
9382	Rehabilitation Services
9383	Medical Imaging - Advanced
9388	Medical Services - Advanced
9397	Emergency Medical Services - Advanced
9398	Orthotics/Prosthetics
9400	Health Studies - Advanced
9401	Therapeutic Services
9402	Therapeutic Services - Advanced
9403	Behavioral Medicine - Advanced
9404	Pharmacy Services - Advanced
9405	Rehabilitation Services - Advanced
9406	Veterinary Services - Advanced

Hospitality and Tourism Cluster

FY19 OCAS Subject Codes - STATE PROGRAMS

9425	HOSPITALITY AND TOURISM
9426	Culinary Arts
9427	Culinary Arts - Specialized
9428	Event Planning
9430	Lodging Services
9431	Lodging Services - Specialized
9434	Service Careers-Culinary Arts
9435	Service Careers-Lodging
9442	Service Careers-Culinary Arts - Specialized
9444	Event Planning - Specialized
9445	Service Careers-Lodging - Specialized
9446	Casino and Gaming
9447	Casino and Gaming - Specialized

Human Services Cluster

FY19 OCAS Subject Codes - STATE PROGRAMS

9475 HUMAN SERVICES

- 9477 Barber
- 9478 Cosmetology
- 9480 Early Care and Education
- 9481 Esthetician
- 9483 Manicurist/Nail Technology
- 9487 Barber - Specialized
- 9488 Cosmetology - Specialized
- 9489 Early Care and Education - Specialized
- 9490 Esthetician - Specialized
- 9491 Manicurist/Nail Technology - Specialized

Information Technology Cluster

FY19 OCAS Subject Codes - STATE PROGRAMS

9525 INFORMATION TECHNOLOGY

- 9526 Animation Technology
- 9527 Animation Technology-Specialized
- 9530 Cybersecurity
- 9531 Database Administration/Development
- 9532 Database Administration/Development-Specialized
- 9537 Digital Design and Publishing
- 9538 Digital Design and Publishing-Specialized
- 9540 Multimedia Technology
- 9541 Multimedia Technology-Specialized
- 9542 Computer/Network Support
- 9543 Computer/Network Support-Specialized
- 9547 Network Systems
- 9548 Network Systems-Specialized
- 9550 Programming
- 9551 Programming-Specialized
- 9552 Game Design/Development
- 9553 Game Design/Development-Specialized
- 9554 Audio and Video Technology IT
- 9555 Audio and Video Technology IT-Specialized
- 9557 Web Design and Development IT
- 9558 Web Design and Development IT-Specialized
- 9559 ArcGIS Support
- 9560 ArcGIS Support-Specialized
- 9564 Cybersecurity Specialized
- 9565 Computer Applications Support
- 9566 Computer Applications Support-Specialized

Law, Public Safety, Corrections & Security Cluster
FY19 OCAS Subject Codes - STATE PROGRAMS

- 9625** **LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY**
- 9629 Criminal Justice
- 9630 Firefighter
- 9638 Criminal Justice -Specialized
- 9645 Firefighter - Specialized

Manufacturing Cluster

FY19 OCAS Subject Codes - STATE PROGRAMS

9675 MANUFACTURING

- 9676 Foundations of Manufacturing
- 9679 CNC Machining
- 9680 CNC Machining - Specialized
- 9681 Computer-Aided Drafting MN
- 9682 Computer-Aided Drafting MN - Specialized
- 9684 Electronics MN
- 9685 Electronics MN-Specialized
- 9697 Manual Machinist
- 9698 Manual Machinist - Specialized
- 9702 Metal Fabrication
- 9705 Service Careers - Metal Fabricator Assistant
- 9707 Welding MN
- 9708 Welding MN-Specialized
- 9714 Metal Fabrication - Specialized
- 9723 Mechatronics
- 9724 Mechatronics-Specialized
- 9734 Foundations of Manufacturing Science - Specialized
- 9735 Service Careers - Metal Fabricator Assistant - Specialized

Marketing Sales and Service Cluster
FY19 OCAS Subject Codes - STATE PROGRAMS

9775	MARKETING SALES AND SERVICE
9783	Marketing Communications
9784	Marketing Communications-Advanced
9787	Professional Sales
9789	Management
9795	Entrepreneurship MK
9802	Entrepreneurship MK - Advanced
9804	Professional Sales - Advanced
9809	Management - Advanced

STEM Cluster

FY19 OCAS Subject Codes - STATE PROGRAMS

9850 Science, Technology, Engineering and Mathematics

- 9852 Biomedical Science and Medicine STEM Academy
- 9862 Pre-Engineering STEM Academy
- 9870 Biomedical Science and Medicine STEM Academy-Advanced
- 9871 Pre-Engineering STEM Academy-Advanced
- 9872 Biotechnology STEM Academy
- 9873 Biotechnology STEM Academy-Advanced
- 9874 PLTW Computer Science
- 9875 Advanced PLTW Computer Science
- 9876 Applied Engineering Technology
- 9877 Applied Engineering Technology - Advanced

Transportation, Distribution and Logistics Cluster
FY19 OCAS Subject Codes - STATE PROGRAMS

9900 TRANSPORTATION, DISTRIBUTION AND LOGISTICS

- 9901 Aerospace Technology
- 9904 Automotive Collision Repair and Refinishing
- 9905 Automotive Collision Repair and Refinishing-Specialized
- 9906 Automotive Service Technology
- 9907 Automotive Service Technology-Specialized
- 9910 Heavy Equipment Service and Repair
- 9911 Marine Repair Technology
- 9912 Medium/Heavy Diesel Service
- 9913 Medium/Heavy Diesel Service-Specialized
- 9914 Motorcycle Technology
- 9916 Power Products
- 9917 Private Pilot
- 9918 Service Careers-Auto Care
- 9919 Service Careers-Small Engines
- 9920 Truck Driver Training
- 9922 Aerospace Technology - Specialized
- 9925 Heavy Equipment Service and Repair - Specialized
- 9926 Marine Repair Technology - Specialized
- 9927 Motorcycle Technology - Specialized
- 9929 Power Products-Specialized
- 9933 Warehouse and Logistics
- 9934 Warehouse and Logistics - Specialized
- 9935 Pipeline Technology
- 9936 Pipeline Technology - Specialized
- 9939 Automotive Detailing
- 9940 Automotive Detailing - Specialized
- 9941 Automotive Refinishing Technology
- 9942 Automotive Refinishing Technology - Specialized
- 9943 Private Pilot - Specialized
- 9944 Service Careers-Auto Care-Specialized
- 9945 Service Careers-Small Engines - Specialized
- 9946 Agriculture Mechanics TR
- 9947 Agriculture Mechanics TR - Specialized