

	Type of Degree / Certificate	Department	2016-17 Catalog: Programs	Program Learning Outcomes from 2015-16 Reports
1	AA	Behavioral Science	<ul style="list-style-type: none"> Associate of Arts, with optional electives in Criminal Justice 	<p>1. Students will understand the historical development and the significant social and political influences on the criminal justice system and the methods used to collect and report the crime data.</p> <p>2. Students will demonstrate knowledge of the sources, and the classifications of the criminal law and the impact of the Supreme Court.</p> <p>3. Students will demonstrate develop an understanding of the structure of the criminal justice system and the functions and processes of the three components: the courts, law enforcement and corrections.</p>
2	AA	Behavioral Science	<ul style="list-style-type: none"> Associate of Arts, with optional electives in Humanities 	<p>1. Students will demonstrate the understanding and the application of two global issues from the course to their lives.</p> <p>2. Students will demonstrate an understanding that his/her actions have a societal impact in regards to literacy.</p>
3	AA	Behavioral Science	<ul style="list-style-type: none"> Associate of Arts, with optional electives in Mexican-American Studies 	<p>1. Students will document the Mexican American historical and cultural/artistic experience.</p> <p>2. Students will be able to successfully analyze and write about a major Mexican American topic.</p>
4	AA	Behavioral Science	<ul style="list-style-type: none"> Associate of Arts, with optional electives in Psychology 	<p>1. Students will demonstrate understanding of key concepts, principles, and major various research methods and their characteristics used in the scientific study of psychology.</p> <p>2. Students will demonstrate understanding of the prominent domains/perspectives and approaches used in the study of psychology.</p> <p>3. Students will demonstrate effective communication (i.e. written, oral) for different purposes.</p> <p>4. Students will describe accepted approaches and standards in psychological assessment and evaluation. Students will analyze sociocultural processes (i.e., education, employment, relationships) in human development across the lifespan.</p>

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5	AA	Behavioral Science	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Social Work 	1. Students will understand the historical development of social work. 2. Students will demonstrate knowledge of social work methods of interventions utilized with individuals, groups, families, agencies and the community. 3. Students will demonstrate an understanding of the issues and needs of special populations served by social work practitioners.
6	AA	Behavioral Science	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Sociology 	1. Students will have a general understanding of sociology's major theories. They will be able to identify those theories and use them in a social situation. 2. Students will understand the relationship between sociological thought and problem solving. They will understand how sociological analysis provides deeper understanding of social phenomena. 3. Students will have a general understanding of the various sociological concepts and how these are applied to the real world.
7	AA	English	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Communication with emphasis in Journalism/Mass Communication 	1. Students will apply professional procedures used in mass media for recognizing news, gathering information, and writing stories by deadline. 2. Students will conduct interviews with pertinent stakeholders. 3. Students will research news stories to provide essential information.
8	AA	English	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Communications with emphasis on Advertising/Public 	Same as Journalism/Mass Communication
9	AA	English	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Communications with Radio & TV Broadcast Journalism 	Same as Journalism/Mass Communication

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10	AA	English	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in English 	<p>1. Students will demonstrate knowledge of individual and collaborative research processes.</p> <p>2. Students will develop ideas and synthesize primary and secondary sources within focused academic arguments, including one or more research-based essays.</p> <p>3. Students will analyze, interpret, and evaluate a variety of texts for the ethical and logical uses of evidence.</p> <p>4. Students will write in a style that clearly communicates meaning, builds credibility, and inspires belief or action.</p> <p>5. Students will apply the conventions of style manuals for specific academic disciplines (e.g., APA, CMS, MLA, etc.)</p>
11	AA	English	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Liberal Arts 	<p>1. Communication: PAC students develop and express ideas through effective written, oral, and visual communication for various academic and professional contexts.</p> <p>2. Critical Thinking: PAC students exhibit habits of mind characterized by the comprehensive exploration of issues, ideas, artifacts, and events before accepting or formulating an opinion or conclusion.</p> <p>3. Empirical and Quantitative Skills: PAC students apply scientific and mathematical concepts to analyze and solve problems.</p> <p>4. Personal Responsibility: PAC students connect choices, actions and consequences to ethical decision-making.</p> <p>5. Social Responsibility: PAC students demonstrate intercultural competency, civic knowledge, and the ability to engage effectively in regional, national and global communities.</p> <p>6. Teamwork: PAC students consider different points of view and work effectively with others to support a shared purpose or goal.</p>

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12	AA	English	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Spanish 	1. Students will demonstrate comprehension of authentic spoken discourse produced by Spanish speakers of diverse origins. 2. Students will produce oral Spanish comprehensible to native speakers using complex grammatical structures to narrate, describe and elicit information. 3. Students will demonstrate increasing comprehension of authentic written texts in a variety of genres.
13	AA	Fine Arts	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Art 	1. Students will understand and apply the visual elements. 2. Students will understand and apply the principles of design. 3. Students will exhibit an understanding of related technical processes and innovations. 4. Students will communicate an awareness of one's own aesthetic, philosophic and ethical position. 5. Students will demonstrate consideration, both culturally and historically, of the breadth of human response and expression.
14	AA	Fine Arts	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Digital Arts and Media 	1. Students will understand and apply the visual elements. 2. Students will understand and apply the principles of design. 3. Students will exhibit an understanding of related technical processes and innovations. 4. Students will communicate an awareness of one's own aesthetic, philosophic and ethical position. 5. Students will demonstrate consideration, both culturally and historically, of the breadth of human response and expression.
15	AA	Fine Arts	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Drama 	1. Students will effectively audition for a role and/ or interview for a position in a theatrical production. 2. Students will function effectively as a member of a collaborative production team for a theatrical performance.

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16	AA	Fine Arts	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Music 	1. Students will communicate using basic musical terms when writing or speaking about music. 2. Students will demonstrate an understanding of musical knowledge through teamwork. 3. Students will recognize musical styles aurally.
17	AA	Fine Arts	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Speech Communication 	1. Students will demonstrate an understanding of the process for developing and presenting effective oral presentations. 2. Students will apply their understanding of the impacts of diversity on human communication. 3. Students will apply principles of effective listening in various communication contexts (i.e. audience, group interaction, interpersonal interaction).
18	AA	Math	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Business 	1. Students will analyze transactions formulating them into journal entries. 2. Students will prepare financial statements in the correct format. 3. Students will extrapolate and interpret financial information to assist them in making well thought out business accounting decisions.
19	AA	Science	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Kinesiology 	1. Students will demonstrate knowledge of the concepts within the disciplines of Kinesiology. 2. Students will develop skills necessary to enhance scholarly work within the disciplines of Kinesiology. 3. Students will apply concepts and theories of movement and demonstrate skills necessary to bridge the gap between theory and practice.

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20	AA	Social Science	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Economics 	<p>ECON 2301</p> <ol style="list-style-type: none"> 1. Students will explain the role of scarcity, specialization, opportunity cost and cost/benefit analysis in economic decision-making. 2. Students will identify the determinants of supply and demand; demonstrate the impact of shifts in both market supply and demand curves on equilibrium price and output. 3. Students will define and measure national income and rates of unemployment and inflation. 4. Students will identify the phases of the business cycle and the problems caused by cyclical fluctuations in the market economy. 5. Students will define money and the money supply; describe the process of money creation by the banking system and the role of the central bank. 6. Students will construct the aggregate demand and aggregate supply model of the macro economy and use it to illustrate macroeconomic problems and potential monetary and fiscal policy solutions. 7. Students will explain the mechanics and institutions of international trade and their impact on the macro economy. 8. Students will define economic growth and identify sources of economic growth. <p>ECON 2302</p> <ol style="list-style-type: none"> 1. Students will explain the role of scarcity, specialization, opportunity cost and cost/benefit analysis in economic decision-making. 2. Students will identify the determinants of supply and demand; demonstrate the impact of shifts in both market supply and demand curves on equilibrium price and output. 3. Students will summarize the law of diminishing marginal utility; describe the process of utility maximization.

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21	AA	Social Science	<ul style="list-style-type: none"> • Associate of Arts, with optional electives in Political Science 	<p>GOVT 2305</p> <ol style="list-style-type: none"> 1. Students will explain the origin and development of constitutional democracy in the United States. 2. Students will demonstrate knowledge of the federal system. 3. Students will describe separation of powers and checks and balances in both theory and practice. 4. Students will demonstrate knowledge of the legislative, executive, and judicial branches of the federal government. 5. Students will evaluate the role of public opinion, interest groups, and political parties in the political system. 6. Students will analyze the election process. 7. Students will describe the rights and responsibilities of citizens. 8. Students will analyze issues and policies in U.S. politics. <p>GOVT 2306</p> <ol style="list-style-type: none"> 1. Students will explain the origin and development of the Texas Constitution. 2. Students will describe state and local political systems and their relationship with the federal government. 3. Students will describe the separation of powers and checks and balances in both theory and practice in Texas. 4. Students will demonstrate knowledge of the legislative, executive, and judicial branches of Texas government. 5. Students will evaluate the role of public opinion, interest groups, and political parties in Texas. 6. Students will analyze the state and local election process. 7. Students will identify the rights and responsibilities of citizens. 8. Students will analyze issues, policies, and the political culture of Texas.

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22	AAS	Administrative Technology	<ul style="list-style-type: none"> Administrative Assistant, A.A.S. 	<ol style="list-style-type: none"> Students will demonstrate relevant job performance skills. Students will demonstrate mastery of oral and written business communication skills. Students will demonstrate accurate accounting practices. Students will demonstrate efficient and effective office procedures and practices.
23	AAS	Agriculture/Horticulture	<ul style="list-style-type: none"> Landscape and Horticultural Science, A.A.S. 	<ol style="list-style-type: none"> Students will apply the basic principles of plant function and development emphasizing Horticultural applications.
24	AAS	Agriculture/Horticulture	<ul style="list-style-type: none"> Turfgrass and Golf Course Management, A.A.S. 	<ol style="list-style-type: none"> Students will be able to understand the environmental, climatic, fertility, and cultural practices that are necessary to support successful growth and maintenance of turfgrass species.
25	AAS	Aviation	<ul style="list-style-type: none"> Aviation Management, A.A.S. 	<ol style="list-style-type: none"> Students will articulate a basic knowledge of the aviation industry, develop management skills and provide mastery of administrative organization by developing an AVIM 2388 power point. Students will articulate a basic knowledge of the aviation industry, develop management skills and provide mastery of administrative organization by developing an AVIM 2388 Work Journal.
26	AAS	Aviation	<ul style="list-style-type: none"> Professional Pilot, A.A.S. 	<ol style="list-style-type: none"> Students will demonstrate flying and safety skills while receiving individual and instant feedback by a certified flight instructor using an FAA certified Part 141 flight training system, meeting all the requirements necessary to pass written test to become a Certified Flight Instructor. Students will demonstrate flying and safety skills while receiving individual and instant feedback by a certified flight instructor using an FAA certified Part 141 flight training system, meeting all the requirements necessary to pass oral and practical test to become a Certified Flight Instructor.
27	AAS	Business Management	<ul style="list-style-type: none"> Business Management, A.A.S. 	<ol style="list-style-type: none"> Students will demonstrate relevant job performance and workplace skills.

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28	AAS	Computer Science/Computer Information Systems	<ul style="list-style-type: none"> Computer Programmer A.A.S. 	1. Students will demonstrate basic programming skills in a given computer language. 2. Students will use operating system features and relevant tools to provide for security; and use encryption techniques and develop backup procedures to protect data. 3. Students will complete an external learning experience to enhance the student's application of skills in the ultimate hands-on training.
29	AAS	Computer Science/Computer Information Systems	<ul style="list-style-type: none"> Computer Support Specialist, A.A.S. 	1. Students will demonstrate specific skills in operating systems and business productivity software suites. 2. Students will demonstrate specific skills in operating systems and business productivity software suites. 3. Students will complete an external learning experience to enhance the student's application of skills in the ultimate hands-on training.
30	AAS	Computer Science/Computer Information Systems	<ul style="list-style-type: none"> Information Assurance and Cybersecurity, A.A.S 	1. Students will assist end-users in troubleshooting software, hardware, operating system, and network problems in typical business settings. 2. Students will use operating system features and relevant tools to provide for security; and use encryption techniques and develop backup procedures to protect data. 3. Students will complete an external learning experience to enhance the student's application of skills in the ultimate hands-on training.
31	AAS	Computer Science/Computer Information Systems	<ul style="list-style-type: none"> Network Administrator, A.A.S. 	1. Students will install, configure, operate and troubleshoot routers, switches, LANs, WANs, and dial-access and wireless services for small networks. 2. Students will be prepared for the globally-recognized Cisco CCNA® certification exam, continued education, and for entry-level career opportunities. 3. Students will complete an external learning experience to enhance the student's application of skills in the ultimate hands-on training.

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32	AAS	Cosmetology	<ul style="list-style-type: none"> • Cosmetology Esthetician, A.A.S. 	<ol style="list-style-type: none"> 1. Students will demonstrate skills in facial treatment, cleansing, masking, therapy and superfluous hair removal. 2. Students will demonstrate competency in anatomy and physiology, chemistry, color psychology and nutrition. 3. Students will demonstrate skills in sanitation, safety, first aid and aroma therapy. 4. Students will demonstrate use of electricity, machines and related equipment. 5. Students will demonstrate skills in Makeup application.
33	AAS	Cosmetology	<ul style="list-style-type: none"> • Cosmetology Operator, A.A.S. 	<ol style="list-style-type: none"> 1. Students will define terminology; practice basic workplace competencies related to haircutting and finishing techniques; and students will demonstrate use of implements, sectioning, haircutting, and finishing skills. 2. Students will define terminology related to nail services and demonstrate the basic procedures of nail services; practice safety and sanitation according to the laws and rules of the state licensing agency; and exhibit workplace competencies in nail services. 3. Students will define terminology related to skin care treatments and demonstrate skin care procedures; practice safety and sanitation according to the laws and rules of the state licensing agency; and exhibit workplace competencies in skin care. 4. Students will define terminology related to chemical reformation; follow safety and sanitation laws and rules according to the state licensing agency; and exhibit workplace competencies related to chemical reformation. 5. Students will create a salon portfolio or business plan; and students will demonstrate organizational skills related to salon operation and management.
34	AAS	Energy Systems Technology	<ul style="list-style-type: none"> • Process Technology Specialization, A.A.S. 	<ol style="list-style-type: none"> 1. Students will identify appropriate procedures to minimize or prevent injuries and illness in the workplace. 2. Students will use process instruments and devices. 3. Students will operate various process systems while working in self-directed teams following safety and operational procedures. 4. Students will develop and apply knowledge to process troubleshooting.

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35	AAS	Energy Systems Technology	<ul style="list-style-type: none"> Production Technician Specialization, A.A.S. 	<ol style="list-style-type: none"> Students will identify appropriate procedures to minimize or prevent injuries and illness in the workplace. Students will use process instruments and devices. Students will demonstrate competent operational ability for basic electrical equipment, hydraulics, pneumatics, and fluid dynamics equipment, pumps and compressors, oil and gas instrumentation equipment, and oil and gas processing equipment. Students will explain well analysis and process and procedures, the well decision process, the economics of production and recovery.
36	AAS	Industrial Technology	<ul style="list-style-type: none"> Industrial Technology, A.A.S. - Instrumentation Specialization 	<ol style="list-style-type: none"> Students will identify the basic components of input, output, and timing control, and demonstrate practical understanding of the use of electronic input and output circuits in the control of process systems. Students will troubleshoot and operate digital and electromechanical systems. Students will adjust existing electromechanical systems to meet varying and specific performance criteria. Students will configure programmable logic controllers (PLCs) to perform varying tasks, and demonstrate an understanding of how PLCs control the processing environment.
37	AAS	Industrial Technology	<ul style="list-style-type: none"> Industrial Technology, A.A.S. - Manufacturing Specialization 	<ol style="list-style-type: none"> Students will Configure programmable logic controllers (PLCs) to perform varying tasks, and demonstrate an understanding of how PLCs control the processing environment. Students will Demonstrate an understanding of metal forming processes, welding processes, and able to apply appropriate plating processes to metals. Students will evaluate products against quality assurance standards and demonstrate a proficiency with the use of the tools for quality assurance. Students will perform system audits and implement both a preventative and a corrective action plan.
38	AAS	Logistics Management	<ul style="list-style-type: none"> Logistics and Supply Chain Management, A.A.S. 	<ol style="list-style-type: none"> Students will demonstrate logistics skills in real world working environment. Students will describe management's role in the delivery of logistics. Students will discuss total supply chain management and its function in the physical distribution system.

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39	AAS	Veterinary Technology	<ul style="list-style-type: none"> Veterinary Technology, A.A.S. 	1. Students will demonstrate job performance skills. 2. Students will demonstrate competency in all essential job skills as outlined by the AVMA Committee on Veterinary Technician Education and Activities (CVTEA). 3. Students will demonstrate competency with job skills. Evaluation of the graduate student's performance through utilization of an employer survey as a measure of the student's level of competency.
40	AS	Agriculture/Horticulture	<ul style="list-style-type: none"> Associate of Science, with optional electives in Agriculture 	1. Students will demonstrate fundamental knowledge in the areas of crops/horticulture, land use, and livestock in relation to optimally managing agriculture resources.
41	AS	Computer Science/Computer Information Systems	<ul style="list-style-type: none"> Associate of Science, with optional electives in Computer Information Systems 	1. Students will demonstrate basic programming skills in a given computer language. 2. Students will demonstrate knowledge of advanced data structures in a given computer language. 3. Students will demonstrate advanced programming skills and methods in a given computer language.
42	AS	Computer Science/Computer Information Systems	<ul style="list-style-type: none"> Associate of Science, with optional electives in Computer Science 	1. Students will demonstrate basic programming skills in a given computer language. 2. Students will demonstrate knowledge of advanced data structures in a given computer language. 3. Students will demonstrate knowledge of computer organization concepts.

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43	AS	Math	<ul style="list-style-type: none"> Associate of Science, with optional electives in Engineering 	<p>Civil and Construction Engineering</p> <ol style="list-style-type: none"> Students will apply current technology to solve practical industrial problems. Students will demonstrate product development, construction supervision, technical sales, component design, field service engineering, work force coordination, and supervision. <p>Civil, Electrical or Mechanical Engineering</p> <ol style="list-style-type: none"> Students will apply the principles of circuit analysis and network theory to electrical engineering problems. Students will apply principles of dynamics and statics to engineering. <p>Electrical and Electronics Engineering</p> <ol style="list-style-type: none"> Students will apply electrical theory to engineering problem solving. Students will apply electronic theory to engineering problem solving. <p>Manufacturing and Mechanical Engineering Technology</p> <ol style="list-style-type: none"> Students will utilize current technology to solve engineering problems. Students will use process principles to solve engineering problems.

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44	AS	Math	<ul style="list-style-type: none"> Associate of Science, with optional electives in Mathematics 	<ol style="list-style-type: none"> Students will determine whether a given definition or theorem applies to a given problem and/or situation and use this definition and theorem appropriately if they apply. Students will use and interpret the language, notation, and applications of differential and Integral Calculus correctly and apply appropriate style and format on written work and exams. Students will demonstrate the ability to visualize (through the use of pencil-to-paper interpretation or computer software) appropriate concepts and applications. Students will demonstrate good problem-solving techniques which will include, but not be limited to: <ol style="list-style-type: none"> The use of a variety of approaches to solve a given problem. The selection of appropriate problem solving techniques. Correctly interpreting results and solutions. Students will demonstrate the proper use of technology (particularly the graphing calculator) both effectively and appropriately.
45	AS	Science	<ul style="list-style-type: none"> Associate of Science, with optional electives in Biology 	<ol style="list-style-type: none"> Students will use critical thinking and scientific problem-solving to make informed decisions in the laboratory. Students will communicate effectively the results of investigations. Students will convert units of measure and demonstrate dimensional analysis skills. Students will demonstrate the ability to work in a group of 2 or more to collaboratively solve problems.

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46	AS	Science	<ul style="list-style-type: none"> Associate of Science, with optional electives in Biology, Pre-Nursing Emphasis 	1. Students will apply the Scientific Method to the processes of learning, critical thinking, and problem solving. 2. Students will communicate clearly and in a way that reflects knowledge and understanding of the human body and demonstrates the ability to adapt information to different audiences and applications. 3. Students will interpret graphs, tables, and images of anatomical and physiological data to demonstrate analysis skills. 4. Students will correlate laboratory techniques and technology with Science concepts.
47	AS	Science	<ul style="list-style-type: none"> Associate of Science, with optional electives in Biology, Pre-Professional Emphasis 	1. Students will use critical thinking and scientific problem-solving to make informed decisions in the laboratory. 2. Students will communicate effectively the results of investigations. 3. Students will convert units of measure and demonstrate dimensional analysis skills. 4. Students will demonstrate the ability to work in a group of 2 or more to collaboratively solve problems.
48	AS	Science	<ul style="list-style-type: none"> Associate of Science, with optional electives in Chemistry 	1. Students will apply the scientific method to solve problems associated with medicine, pharmacy and dentistry. 2. Students will maintain records and communicate scientific principles clearly and concisely. 3. Students will use modern laboratory techniques and instrumentation to gather data on scientific problems, then use this data to draw conclusions and formulae scientific hypotheses.
49	AS	Science	<ul style="list-style-type: none"> Associate of Science, with optional electives in Geology 	1. Students will demonstrate an understanding of the materials that make up the Earths and the processes that shape it. 2. Students will demonstrate knowledge of mineral and rock properties and be able to identify common rocks and minerals.
50	FOS	Behavioral Science	<ul style="list-style-type: none"> Associate of Arts in Teaching - EC-6, 4-8, EC-12 Special Education FOS 	
51	FOS	Behavioral Science	<ul style="list-style-type: none"> Associate of Arts in Teaching 7-12 and Other EC-12 FOS 	

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52	FOS	Behavioral Science	• Criminal Justice FOS	
53	FOS	Behavioral Science	• Mexican-American Studies FOS	
54	FOS	Computer Science/Computer Information Systems	• Computer Science FOS	
55	FOS	English	• Advertising/Public Relations FOS	
56	FOS	English	• Journalism/Mass Communication	
57	FOS	English	• Radio & TV Broadcast Journalism	
58	FOS	Fine Arts	• Music FOS	
59	FOS	Fine Arts	• Speech Communication FOS	
60	FOS	Math	• Business FOS	
61	Level 1	Administrative Technology	• Administrative Assistant Level 1 Certificate	1. Students will demonstrate mastery of oral and written business communication skills. 2. Students will demonstrate accurate accounting practices. 3. Students will demonstrate efficient and effective office procedures and practices.
62	Level 1	Administrative Technology	• Bill and Account Collector Level 1 Certificate	1. Students will demonstrate relevant Job performance skills. 2. Students will demonstrate accurate accounting practices.
63	Level 1	Administrative Technology	• Data Entry Technician Level 1 Certificate	1. Students will demonstrate Keyboarding Proficiency by mastering the required words per minute. 2. Students will demonstrate computer and software competency. 3. Students will demonstrate accurate and effective use of spreadsheet software.

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64	Level 1	Administrative Technology	• General Office Level 1 Certificate	1. Students will demonstrate Keyboarding Proficiency by mastering the required words per minute. 2. Students will demonstrate computer and software competency. 3. Students will demonstrate organization skills.
65	Level 1	Administrative Technology	• Secretarial Assistant Level 1 Certificate	1. Students will demonstrate Keyboarding Proficiency by mastering the required words per minute. 2. Students will demonstrate comprehension of productive teamwork concepts. 3. Students will demonstrate efficient and effective office procedures and
66	Level 1	Administrative Technology	• Virtual Administrative Assistant Level 1 Certificate	1. Students will demonstrate proficiency in use of computerized software applications. 2. Students will demonstrate mastery of oral and written business communication skills. 3. Students will demonstrate accurate and effective use of spreadsheet software.
67	Level 1	Agriculture/Horticulture	• Basic Nursery and Landscape Operations Level 1 Certificate	1. Students will know the cultural practices and conditions that are necessary to support successful growth of herbaceous plant materials.
68	Level 1	Agriculture/Horticulture	• Floral Design Technician Level 1 Certificate	1. Students will identify and practice design techniques used to create aesthetically pleasing floral designs.
69	Level 1	Agriculture/Horticulture	• Landscape and Horticultural Science Level 1 Certificate	1. Students will apply the basic principles of plant function and development emphasizing Horticultural applications.
70	Level 1	Agriculture/Horticulture	• Small/Organic Farmer Level 1 Certificate	1. Students will identify, use and care for a wide variety of plants in the landscape and greenhouse, emphasizing the importance of plant selection, planting practices and proper cultural activities.
71	Level 1	Agriculture/Horticulture	• Turf and Landscape Irrigation Level 1 Certificate	1. Students will apply the basic principles of plant function and development emphasizing Horticultural applications.

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72	Level 1	Agriculture/Horticulture	• Turfgrass & Golf Course Management Level 1 Certificate	1. Students will apply the basic principles of plant function and development emphasizing Horticultural applications.
73	Level 1	Aviation	• Aviation Management Level 1	
74	Level 1	Aviation	• Certified Flight Instructor Level 1 Preparation Certificate	1. Students will demonstrate flying and safety skills while receiving individual and instant feedback by a certified flight instructor using an FAA certified Part 141 flight training system, meeting all the requirements necessary to pass written test to become a Certified Flight Instructor.
75	Level 1	Aviation	• Commercial Pilot Level 1 Certificate	1. Students will demonstrate the flying skills required by a professional pilot while receiving individual and instant feedback by a certified flight instructor using an FAA certified Part 141 flight training system, meeting all the requirements necessary to pass the FAA Commercial Pilot written examination. 2. Students will demonstrate the flying skills required by a professional pilot while receiving individual and instant feedback by a certified flight instructor using an FAA certified Part 141 flight training system, meeting all the requirements necessary to pass the FAA Commercial Pilot Oral and Practical
76	Level 1	Aviation	• Instrument Pilot Level 1 Certificate	1. Students will demonstrate flying using only the flight instruments and no outside visual clues while receiving individual and instant feedback by a certified flight instructor using an FAA certified Part 141 flight training system, meeting all the requirements necessary to pass the FAA Instrument Pilot written examination. 2. Students will demonstrate flying using only the flight instruments and no outside visual clues while receiving individual and instant feedback by a certified flight instructor using an FAA certified Part 141 flight training system, meeting all the requirements necessary to pass the FAA oral and practical
77	Level 1	Aviation	• Multi-Engine Pilot Level 1 Certificate	1. Students will demonstrate flying and safety skills while in a twin engine airplane while receiving individual and instant feedback by a certified flight instructor using an FAA certified Part 141 flight training system, meeting all the requirements necessary to become a Multi-Engine Pilot.

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78	Level 1	Aviation	<ul style="list-style-type: none"> Private Pilot Level 1 Certificate 	<p>1. Students will demonstrate basic flying and safety skills while receiving individual and instant feedback by a certified flight instructor using an FAA certified Part 141 flight training system, meeting all the requirements necessary to pass FAA Private Pilot written exam.</p> <p>2. Students will demonstrate basic flying and safety skills while receiving individual and instant feedback by a certified flight instructor using an FAA certified Part 141 flight training system, meeting all the requirements necessary to pass FAA Private Pilot Oral and Practical exams.</p>
79	Level 1	Business Management	<ul style="list-style-type: none"> Administration Level 1 Certificate 	<p>1. Students will demonstrate organizational knowledge and workplace skills for satisfactory job performance in entry-level positions.</p>
80	Level 1	Business Management	<ul style="list-style-type: none"> Entrepreneurship Level 1 Certificate 	<p>1. Students will demonstrate knowledge and skills for researching, organizing, and operating a successful small business enterprise.</p>
81	Level 1	Business Management	<ul style="list-style-type: none"> International Business Level 1 Certificate 	<p>1. Students will demonstrate knowledge and skills for success in entry level management (supervisory) positions)</p>
82	Level 1	Business Management	<ul style="list-style-type: none"> Leadership Level 1 Certificate 	<p>1. Students will demonstrate knowledge and skills for identifying and utilizing specific leadership styles and approaches in motivating and communicating with others in an organizational setting.</p>
83	Level 1	Business Management	<ul style="list-style-type: none"> Marketing Level 1 Certificate 	<p>1. Students will demonstrate knowledge and computer-related skills for entry into the marketing career field.</p>
84	Level 1	Computer Science/Computer Information Systems	<ul style="list-style-type: none"> Cisco Certified Network Associate Level 1 Certificate 	<p>1. Students will install, configure, operate and troubleshoot routers, switches, LANs, WANs, and dial-access and wireless services for small networks.</p> <p>2. Students will install, configure, operate and troubleshoot routers, switches, LANs, WANs, and dial-access and wireless services for small networks.</p> <p>3. Students will be prepared for the globally-recognized Cisco CCNA® certification exam, continued education, and for entry-level career opportunities.</p>

	Type of Degree / Certificate	Department	2016-17 Catalog: Programs	Program Learning Outcomes from 2015-16 Reports
85	Level 1	Computer Science/Computer Information Systems	• Computer Forensics Level 1 Certificate	<p>1. Students will critically analyze situations of computer and network use, identifying security issues and consequences.</p> <p>2. Students will use operating system features and relevant tools to provide for security; and use encryption techniques and develop backup procedures to protect data.</p> <p>3. Students will use operating system features and relevant tools to provide for security; and use encryption techniques and develop backup procedures to protect data.</p>
86	Level 1	Computer Science/Computer Information Systems	• Computer Programming Basics Level 1 Certificate	<p>1. Students will demonstrate basic programming skills in a given computer language.</p> <p>2. Students will use operating system features and relevant tools to provide for security; and use encryption techniques and develop backup procedures to protect data.</p>
87	Level 1	Computer Science/Computer Information Systems	• Computer Programming Intermediate Level 1 Certificate	<p>1. Students will demonstrate basic programming skills in a given computer language.</p> <p>2. Students will use operating system features and relevant tools to provide for security; and use encryption techniques and develop backup procedures to protect data.</p> <p>3. Students will complete an external learning experience to enhance the student's application of skills in the ultimate hands-on training.</p>
88	Level 1	Computer Science/Computer Information Systems	• Computer Support Specialist Level 1 Certificate	<p>1. Students will assist end-users in troubleshooting software, hardware, operating system, and network problems in typical business settings.</p> <p>2. Students will demonstrate technical job-performance and workplace skills.</p> <p>3. Students will demonstrate rapport with users in problem-solving situations.</p>

	Type of Degree / Certificate	Department	2016-17 Catalog: Programs	Program Learning Outcomes from 2015-16 Reports
89	Level 1	Computer Science/Computer Information Systems	<ul style="list-style-type: none"> Information Assurance & Cybersecurity Level 1 Certificate 	1. Students will assist end-users in troubleshooting software, hardware, operating system, and network problems in typical business settings. 2. Students will use operating system features and relevant tools to provide for security; and use encryption techniques and develop backup procedures to protect data. 3. Students will install, configure, operate and troubleshoot routers, switches, LANs, WANs, and dial-access and wireless services for small networks.
90	Level 1	Computer Science/Computer Information Systems	<ul style="list-style-type: none"> Personal Computer Skills Level 1 Certificate 	1. Students will demonstrate specific skills in operating systems and business productivity software suites. 2. Students will demonstrate specific skills in operating systems and business productivity software suites.
91	Level 1	Computer Science/Computer Information Systems	<ul style="list-style-type: none"> A+ Certificate Preparation Marketable Skills Award 	
92	Level 1	Cosmetology	<ul style="list-style-type: none"> Cosmetology Esthetician Specialty Level 1 Certificate 	1. Students will demonstrate skills in facial treatment, cleansing, masking, therapy and superfluous hair removal. 2. Students will demonstrate competency in anatomy and physiology, chemistry, color psychology and nutrition. 3. Students will demonstrate skills in sanitation, safety, first aid and aroma therapy. 4. Students will demonstrate use of electricity, machines and related equipment. 5. Students will demonstrate skills in Makeup application.
93	Level 1	Energy Systems Technology	<ul style="list-style-type: none"> Entry Level Energy Technician Level 1 Certificate 	1. Students will identify appropriate procedures to minimize or prevent injuries and illness in the workplace. 2. Students will use process instruments and devices.

	Type of Degree / Certificate	Department	2016-17 Catalog: Programs	Program Learning Outcomes from 2015-16 Reports
94	Level 1	Logistics Management	<ul style="list-style-type: none"> International Logistics Management Level 1 Certificate 	1. Students will describe the impact of transportation on international logistics operations. 2. Students will list import and custom regulations that are important in international logistics operations. 3. Students will describe the impact of management's role on international logistics operations.
95	Level 1	Logistics Management	<ul style="list-style-type: none"> Logistics Management Level 1 Certificate 	1. Students will describe management's role in the delivery of logistics. 2. Students will describe the impact of automation systems on warehouse operations. 3. Students will describe the different modes of transportation that support logistics operations.
96	Level 1	Logistics Management	<ul style="list-style-type: none"> Manufacturing Management Level 1 Certificate 	1. Students will describe the automation of the manufacturing and operations system. 2. Students will describe the operations and production management as it relates to quality. 3. Students will describe supervision and purchasing in the manufacturing operation.
97	Level 1	Logistics Management	<ul style="list-style-type: none"> Purchasing Clerk Level 1 Certificate 	1. Students will describe management's role in the delivery of logistics. 2. Students will describe the operations and production management as it relates to quality. 3. Students will describe supervision and purchasing in the manufacturing operation.
98	Level 1	Logistics Management	<ul style="list-style-type: none"> Transportation Management Level 1 Certificate 	1. Students will describe the different modes of transportation that support logistics operations. 2. Students will describe the impact of automation systems on warehouse operations.

	Type of Degree / Certificate	Department	2016-17 Catalog: Programs	Program Learning Outcomes from 2015-16 Reports
99	Level 1	Logistics Management	<ul style="list-style-type: none"> Warehouse Management Level 1 Certificate 	1. Students will describe the different modes of transportation that support logistics operations. 2. Students will describe the impact of automation systems on warehouse operations. 3. Students will list the general functions of the supervisor in a warehouse operation.
100	Level 1	Logistics Management	<ul style="list-style-type: none"> Operations Management Advanced Technical Certificate 	1. Students will describe the automation of the manufacturing and operations system. 2. Students will describe management's role in the delivery of logistics. 3. Students will describe how the tools of quality management fit in with the success or failure of educational institutions and logistics operations.
101	Level 2	Agriculture/Horticulture	<ul style="list-style-type: none"> Landscape & Turfgrass Equipment Technician Level 2 Certificate 	1. Students will demonstrate proficiency in performing basic office skills in a veterinary practice. 2. Students will demonstrate proficiency in performing clinical procedures and recognizing common clinical diseases in a small animal practice. 3. Demonstrate and perform basic restraint, medication, and treatment techniques for domestic animals.
102	Level 2	Business Management	<ul style="list-style-type: none"> Entry-Level Supervision Level 2 Certificate 	1. Students will demonstrate knowledge and skills for success in entry level management (supervisory) positions.

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103	Level 2	Cosmetology	<ul style="list-style-type: none"> • Cosmetology Operator Level 2 Certificate 	<p>1. Students will define terminology; practice basic workplace competencies related to haircutting and finishing techniques; and students will demonstrate use of implements, sectioning, haircutting, and finishing skills.</p> <p>2. Students will define terminology related to nail services and demonstrate the basic procedures of nail services; practice safety and sanitation according to the laws and rules of the state licensing agency; and exhibit workplace competencies in nail services.</p> <p>3. Students will define terminology related to skin care treatments and demonstrate skin care procedures; practice safety and sanitation according to the laws and rules of the state licensing agency; and exhibit workplace competencies in skin care.</p> <p>4. Students will define terminology related to chemical reformation; follow safety and sanitation laws and rules according to the state licensing agency; and exhibit workplace competencies related to chemical reformation.</p> <p>5. Students will create a salon portfolio or business plan; and students will demonstrate organizational skills related to salon operation and management.</p>
104	Level 2	Energy Systems Technology	<ul style="list-style-type: none"> • Energy Technician Career Foundations Core Level 2 Certificate 	<p>1. Students will identify appropriate procedures to minimize or prevent injuries and illness in the workplace.</p> <p>2. Students will use process instruments and devices.</p>
105	Level 2	Veterinary Technology	<ul style="list-style-type: none"> • Veterinary Assistant Level 2 Certificate 	<p>1. Students will demonstrate proficiency in performing basic office skills in a veterinary practice.</p> <p>2. Students will demonstrate proficiency in performing clinical procedures and recognizing common clinical diseases in a small animal practice.</p> <p>3. Students will demonstrate and perform basic restraint, medication, and treatment techniques for domestic animals.</p>