

OSSE CTE Transferable Skills Crosswalk Secondary and Two-Year Programs (UDC-CC)

OSSE CTE Secondary Programs of Study	UDC-CC	Transferable Skills
Architecture and Construction		
Architectural Design	Architectural Engineering Technology (AAS)	<p>Research, design and present an architectural product.</p> <p>Illustrate concepts of architectural theories in design environment.</p> <p>Utilize modern instruments, methods, and techniques to produce documents.</p>
Construction Management	Construction Management (AAS) *Program not currently accepting students*	<p>Knowledge about building materials used in construction industry.</p> <p>Understanding of how systems models can be used to describe construction activities.</p> <p>Ability to explain the fundamental processes used to create project designs and construction documents.</p>
Arts, A/V Technology, and Communications		
Audio/Video Production	Graphic Design (AA)	<p>Analyze and summarize the history and evolution of the arts, audio/video tech and comms field of study.</p> <p>Demonstrate a flexibility to adapt to changing design trends.</p> <p>Development of an aptitude of technological skills and graphic design as an art form.</p>
Animation	Graphic Design (AA)	<p>Analyze and summarize the history and evolution of the arts, audio/video tech and comms field of study.</p> <p>Demonstrate a flexibility to adapt to changing design trends; has an aptitude of technological skills and graphic design as an art form.</p>

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Graphic Design and Illustration	Graphic Design (AA)	<p>The student understands principles of graphic design an illustration. Demonstrates and understanding of fundamental design principles and the history of art and design.</p> <p>Development of an aptitude of technological skills and graphic design as an art form.</p>
Business Management & Administration		
Business Management	Business Administration (AS) Fashion Merchandising (AAS)	<p>The student understands characteristics and ethics in business.</p> <p>Ability to describe the economic environment of Business in the US and the role of government in business.</p> <p>Recognize the effect of current social, political, and international forces that affect sale, growth, and profits.</p> <p>Apply mathematical skill to compute stock levels, turnover etc.</p>
Business Information Management	Computer Accounting Technology (AAS)	<p>The student understands the characteristics of business and business ethics.</p> <p>Student coordinates information and business management to aid in business planning.</p> <p>The student designs solutions to mathematical business problems using spreadsheet technologies.</p>

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Education and Training		
Child Care and Development	<p>Education Concentration: Early Childhood School (AA)</p> <p>Education Concentration: Infant Toddler (AA)</p>	<p>Apply the foundations of the education profession, content basis for curricula, and characteristics of diverse learners.</p> <p>Demonstrate knowledge of the philosophical, historical, sociological, legal, and psychological foundations of education.</p> <p>Demonstrate expertise in the content of the curricula, the appropriate uses of technology, interpersonal communication, and effective pedagogy.</p> <p>Show understanding and respect for the diversity and special needs of children.</p>
Teacher Education and Training	<p>Education Concentration: Early Childhood School (AA)</p> <p>Education Concentration: General Education for Elementary and Secondary (AA)</p> <p>Education Concentration: Infant Toddler (AA)</p>	<p>Apply the foundations of the education profession, content basis for curricula, and characteristics of diverse learners.</p> <p>Demonstrate knowledge of the philosophical, historical, sociological, legal, and psychological foundations of education.</p> <p>Demonstrate expertise in the content of the curricula, the appropriate uses of technology, interpersonal communication, and effective pedagogy.</p> <p>Show understanding and respect for the diversity and special needs of children.</p>
Finance		
Accounting	Computer Accounting Technology (AAS)	<p>Ability to use equations, accounting tools and automated systems in real-world situations to maintain and plan the use of financial resources.</p> <p>Identify, discuss, and evaluate ethical issues and decisions in accounting case studies.</p> <p>Apply the specialized accounting skills and knowledge needed to analyze, classify, and record business transactions.</p>

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Government and Public Administration		
Foreign Service and Diplomacy	Liberal Studies (AA/AAS)	<p>Conceptualize, apply, analyze, synthesize, and evaluate information from a variety of sources.</p> <p>Utilize effective written and oral communication to present ideas and research.</p> <p>Be aware of one’s place in the world as a global citizen, open to and attentive to diversity across the spectrum of differences.</p> <p>Use the computer and other technologies to support personal and professional objectives.</p>
Health Science		
Biomedical Science (PLTW)	Nursing (AASN) Mortuary Science (AAS) Respiratory Therapy (AAS)	<p>Develop and comprehend medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.</p> <p>Ability to apply science of biology, medicine, and chemistry to investigate, prevent, diagnose, and treat disease and in addition to implications postmortem.</p> <p>Knowledge of planning, managing, and providing therapeutic, diagnostic, health informatics, support services and biotech research and development.</p> <p>Employ ethical and legal responsibilities, recognize limitations, and understand the implications of their actions.</p>
Biotechnology	Natural Sciences Concentration: Biology (AS)	<p>Knowledge of biology, biotechnology, bioengineering and related fields.</p> <p>Understand the important roles of bioenergy and biological remediation, globally, and future trends in biological science and biotechnology.</p>

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		<p>Ability to use sophisticated lab equipment and use scientific method to investigate.</p> <p>Employ ethical and legal responsibilities, recognize limitations, and understand the implications of their actions.</p>
Health Science: Certified Nursing Assistant	<p>Nursing (AASN) Respiratory Therapy (AAS)</p>	<p>Achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.</p> <p>Develop and comprehend medical vocabulary appropriate to medical procedures, human anatomy, and physiology, and pathophysiology.</p> <p>Understand diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care.</p> <p>Employ ethical and legal responsibilities, recognize limitations, and understand the implications of their actions.</p>
Health Science: General	<p>Nursing (AASN) Respiratory Therapy (AAS)</p> <p>Natural Sciences Concentration: Biology (AS)</p>	<p>Achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.</p> <p>Develop and comprehend medical vocabulary appropriate to medical procedures, human anatomy, and physiology, and pathophysiology.</p> <p>Understand diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care.</p> <p>Employ ethical and legal responsibilities, recognize limitations, and understand the implications of their actions.</p>

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Hospitality and Tourism		
Hospitality Services	Hospitality and Tourism Management (AAS) Mortuary Science (AAS)	<p>Ability to interpret and articulate written and oral communications as appropriate for hospitality environments.</p> <p>Administer strategies for managing diverse multicultural hospitality operations.</p> <p>Apply hospitality operations theory and operational practices.</p> <p>Demonstrate the concepts and application of managerial, financial, computer, and technical skills that are needed to be successful within the hospitality industry.</p> <p>Understanding of management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel-related services.</p> <p>Demonstrate skills required for conducting arrangement conferences, visitations, services, and ceremonies.</p>
Human Services		
Cosmetology	Mortuary Science (AAS)	<p>Develop knowledge of chemistry principles as they relate to services on the human body.</p> <p>Develop and comprehend vocabulary appropriate to human anatomy.</p> <p>Develop an understanding of efficient and safe work practices.</p> <p>Knowledge and implementation of state law.</p> <p>Understand and implement skills pertaining to small business management, marketing, ethics, sales, and finance.</p>

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Barbering	Mortuary Science (AAS)	<p>Develop knowledge of chemistry principles as they relate to services on the human body.</p> <p>Develop and comprehend vocabulary appropriate to human anatomy.</p> <p>Develop an understanding of efficient and safe work practices.</p> <p>Knowledge and implementation of state law.</p> <p>Understand and implement skills pertaining to small business management, marketing, ethics, sales, and finance.</p>
Information Technology		
Digital Media	Graphic Design (AA)	<p>Demonstrate an understanding of fundamental design principles such as the use of line, shape, color, value, texture, and space.</p> <p>Demonstrate a flexibility to adapt to changing design trends.</p> <p>Establish solid conceptual thinking and critical reasoning skills.</p> <p>Illustrate an aptitude of industry-standard technological skills and graphic design as an art form.</p> <p>Demonstrate an understanding of the art and design history that preceded and influenced the contemporary design world.</p>
Computer Science (PLTW)	Computer Science Technology (AAS)	<p>Apply logical skills and mathematical knowledge to analyze the problem, develop, and implement the general solution (algorithm) to the problems in computer science discipline.</p>

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		<p>Articulate oral and written skills necessary to communicate technical information to those outside of computing field.</p> <p>Demonstrate an understanding of professional, ethical, and legal issues as they relate to computer science technology.</p> <p>Identify, formulate, and solve problems related to software engineering.</p> <p>Develop, test, and verify software solutions using different design methodologies and programming languages.</p>
Computer Science (AP)	Computer Science Technology (AAS)	<p>Apply logical skills and mathematical knowledge to analyze the problem, develop, and implement the general solution (algorithm) to the problems in computer science discipline.</p> <p>Articulate oral and written skills necessary to communicate technical information to those outside of computing field.</p> <p>Demonstrate an understanding of professional, ethical, and legal issues as they relate to computer science technology.</p> <p>Identify, formulate, and solve problems related to software engineering.</p> <p>Develop, test, and verify software solutions using different design methodologies and programming languages.</p>

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Law, Public Safety, Corrections & Security		
Law Enforcement	Corrections Administration (AAS) Legal Studies (AAS) Law Enforcement (AAS)	<p>Explain legal concepts and terminology. Understand principles of constitutional law as they relate to issues in law enforcement and other legal practices.</p> <p>Explain concepts, theoretical perspectives, empirical findings, and trends in criminal justice.</p> <p>Effectively communicate through oral and written formats and demonstrate an effective use of technology.</p> <p>Demonstrate the ability to apply legal and ethical principles.</p> <p>Illustrate an understanding of the basic principles of the American legal system, including the sources of law, jurisdiction, civil case procedure, and the structure of state and federal court systems.</p> <p>Demonstrate an understanding of the history, culture, organization of criminal gangs, and their social and criminal impact on society.</p>
Marketing		
Marketing	Fashion Merchandising (AAS)	<p>Develop the skills to sell apparel based on quality, appropriateness, price, target market, and aesthetic appearance.</p> <p>Apply mathematical skill to compute stock levels, markups, markdowns, discounts, turnover, the six-month merchandise plan, and open-to-buy.</p> <p>Recognize the effect of current social, political, and international forces in the global marketplace that affect production, sales, growth potential, and profits.</p>

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		Demonstrate competency in merchandising research, marketing and consumer analysis, and the application to merchandising problems.
Science, Technology, Engineering & Mathematics		
Aerospace Engineering (PLTW)	Aviation Maintenance Technology (AAS)	<p>Exhibit knowledge of aircraft engines, structures, and systems, as well as appropriate FAA regulations.</p> <p>Illustrate knowledge of industry information: current status, segments, and opportunities.</p> <p>Demonstrate critical thinking, problem solving, and communication skills, as well as the ability to work with others.</p>
Civil Engineering and Architecture (PLTW)	Architectural Engineering Technology (AAS)	<p>Illustrate concepts of architectural theories in a design environment.</p> <p>Utilize modern instruments, methods, and techniques to produce documents and architectural engineering and presentations.</p> <p>Utilize modern instruments and research techniques for site development and building layout.</p> <p>Estimate material type and quantities for projects.</p>
Computer Science and Software Engineering (PLTW)	Computer Science Technology (AAS)	<p>Apply logical skills and mathematical knowledge to analyze the problem, develop, and implement the general solution (algorithm) to the problems in computer science discipline.</p> <p>Articulate oral and written skills necessary to communicate technical information to those outside of computing field.</p>

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		<p>Demonstrate an understanding of professional, ethical, and legal issues as they relate to computer science technology.</p> <p>Utilize the techniques, skills, and tools of the profession.</p> <p>Develop, test, and verify software solutions using different design methodologies and programming languages.</p>
Transportation and Logistics		
Automotive Technology	Aviation Maintenance Technology (AAS)	<p>Demonstrate proficient, entry-level mechanical maintenance skills.</p> <p>Illustrate knowledge of industry information: current status, segments and opportunities.</p> <p>Demonstrate critical thinking, problem solving, and communication skills, as well as the ability to work with others.</p>