

**Career Clusters and Pathways:  
Chaparral High School  
2009-2010**



**Students of Chaparral High School:  
Discover Your Future!**

**Career Connections  
and  
Course Descriptions**

**DRAFT—  
DO NOT REPRODUCE**

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## **GADSDEN INDEPENDENT SCHOOL DISTRICT PRE-REGISTRATION INFORMATION**

Dear Parents,

We encourage you to review this handbook, along with A Guide to Career Clusters and Pathways, with your son/daughter concerning the requirements and course offerings, and then assist your child in developing a schedule for next year.

Students who plan to enroll in the Gadsden Independent School District should check this handbook carefully before completing the pre-registration work sheet. This handbook contains information concerning registration and graduation requirements, and A Guide to Career Clusters and Pathways contains descriptions of each course taught in the high schools. Information regarding college requirements, college tests, financial aid, scholarships, and career objective plans may be acquired from your counselor.

Students should be very careful in their selection of courses. Choice of courses at this time will determine the master schedule to be devised for the next school year. Requests will determine what courses will be offered and the number of class sections for each course. Careful course selection helps the student obtain the courses wanted.

Parents, you are encouraged to use this pre-registration handbook and the Guide to discuss and assist your child in the selection of courses. Your involvement in this process of course selection will greatly aid your child in making appropriate choices for their academic program toward graduation. Please feel free to call the school if you desire further information.

Sincerely,

Cynthia Nava,  
Superintendent



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## Planning Your Future: Career Pathways

This guidebook is designed to help you select courses during your high school years that will support your future education and employment plans. The majority of employment opportunities that provide people with a "living wage" require specific skills and education beyond high school. Determining which direction to go is not always easy, and at the end of your 12<sup>th</sup> grade year you will have lots of options. A way to look at this process is to imagine a highway system. Presently, the road has been pre-planned for you and you have had very little choice in what route you take to complete this first leg of the journey. You begin school in kindergarten and then you complete at 12<sup>th</sup> grade. After graduation, the road branches off in many directions. Consider them on-ramps to a new horizon of opportunity. There is a road leading to a 4-year university, another to the military or to a Community College. Once you leave high school, there are plenty of options, and you may find that you get on and off the "educational on-ramp" at many times in your life.

Another choice that you may make many times in your life is deciding what you want to do with your life in terms of your career. The world of work is divided into sixteen broad categories called clusters, such as Education and Training or Human Services. With each cluster there are pathways or different categories that employ people in different occupations. For example, in Education and Training there are three pathways: Administration and Administrative Support, Professional Support Services, and Teaching/Training. Within the Teaching/Training pathway there are careers such as elementary teachers, coaches, and child care workers. This guide contains information about all sixteen clusters and which courses are offered at one or more of the high schools that you can take to start working towards your future occupation. Some even offer the opportunity to earn credentials while you are still in high school that can help you get a job when you graduate. Other clusters have pathways that connect you to the Dona Ana Branch Community College while you are still in high school and allow you to get an early start on the advanced education you will need for your career choice.

To help you decide on your "pathway" there are several tools that are available to you. First of all, your I-CAT advisor will guide you through the process of exploring and selecting a career cluster and pathway, in addition to helping you with Pre-Registration. Another tool is the *Career Cruising*<sup>™</sup> online program, available at school or at home: [www.careercruising.com](http://www.careercruising.com). *Career Cruising*<sup>™</sup> provides a Career Matchmaker, a section for exploring careers, another for exploring colleges and universities, and a Career Portfolio Tool, which allows you to store your interest inventory, build a resume, and document all your school, volunteer, and extracurricular activities. Finally, there is the One-Stop Career Center, which has plenty of information about different career options; what type of education, degree and/or certification is required; salaries; and future forecasts for employment.






This book is organized according to the sixteen clusters described on the next two pages, with course descriptions for each cluster. If you want to find a course quickly, check the back of the book for the index. It will tell you where you can find a specific course.

Take your time and make good decisions when you choose your courses. You can always change your pathway or cluster. Part of being a high school student is about exploring options. The intention of this book is to give you some ideas to think about as you continue your journey towards a productive and fulfilling life.



## The Sixteen Career Clusters

	<p>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</p>
	<p>Careers in designing, planning, managing, building and maintaining the built environment.</p>
	<p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.</p>
	<p>Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.</p>
	<p>Planning, managing and providing education and training services, and related learning support services.</p>
	<p>Planning, services for financial and investment planning, banking, insurance, and business financial management.</p>
	<p>Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.</p>
	<p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</p>
	<p>Hospitality &amp; Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.</p>
	<p>Preparing individuals for employment in career pathways that relate to families and human needs.</p>
	<p>Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.</p>
	<p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p>
	<p>Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</p>

 <p><b>Marketing, Sales &amp; Service</b></p>	<p>Planning, managing, and performing marketing activities to reach organizational objectives.</p>
 <p><b>Science, Technology, Engineering &amp; Mathematics</b></p>	<p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</p>
 <p><b>Transportation, Distribution &amp; Logistics</b></p>	<p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</p>

## Courses Required For Graduation

The following courses are required for all students to meet New Mexico and District graduation requirements

### 9th Grade Required Courses

English 1	Algebra 1	Integrated Science 1	US Government and Economics	Physical Education/Health 1	Foreign Language
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**COURSE NUMBER/TITLE:** 10014144/10012152/ **English 1** (*English1*)

**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Build on your prior knowledge of good writing elements, especially word choice and conventions, to create narrative, expository, persuasive, and analytical/evaluative essays. Examine the elements of persuasion used in the media. Use reading, writing, speaking, and listening to explore the major genres and themes of literature.

**COURSE NUMBER/TITLE:** 20314131/20312111/ **Algebra 1** (*Algebra1*)

**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Study the properties and operations of the real number system; evaluate rational algebraic expressions; solve and graph first degree equations and inequalities; translate word problems into equations; factor polynomials; and solve simple quadratic equations.

**COURSE NUMBER/TITLE:** 17414113/17412113/ **Integrated Science 1** (*IntegSci1*)

**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Use scientific processes, technology, and reasoning to investigate properties and structure of matter; energy transformation and transfer; motion; ecosystems; cell structure and function; energy in earth systems; and geochemical cycles.

**COURSE NUMBER/TITLE:** 17415113/ **Honors Integrated Science 1** (*H-IntegSci1*)

**PREREQUISITE/GRADES:** Teacher or Counselor Recommendation / Grades 9, 10, 11, 12

**CREDIT:** 1

Use scientific processes, technology, and mathematical reasoning to investigate properties and structure of matter; energy transformation and transfer; motion; ecosystems; cell structure and function; energy in earth systems; and geochemical cycles. Develop, conduct, and share individual experiments to investigate concepts and topics in depth.

**COURSE NUMBER/TITLE:** 27394142/27392142/ **US Government and Economics** (*USGovt/Econ*)

**PREREQUISITE/GRADES:** None / Grades 9, 10, 11, 12

**CREDIT:** 1

Prepare to be informed citizens. Study the structure of national, state and local U.S. government, the principles of market economics, and discuss contemporary U.S. issues.

**COURSE NUMBER/TITLE:** 23054110/23052110/ **Physical Education 1** (*PhysEdHealth1*)

**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Participate in various physical activities to help develop fitness and personal health awareness.



## 9th Grade Required Courses - Continued

English 1	Algebra 1	Integrated Science 1	US Government and Economics	Physical Education/Health 1	Foreign Language
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**Choice of one of the following modern/classical languages:**

**COURSE NUMBER/TITLE:** 12524101/12522101/ **Spanish Non-Native Speakers 1** (*SpanNonNativ1*)

**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Learn the basic skills – listening, speaking, reading, and writing – and the basic structures of Spanish within a cultural context, with emphasis placed on oral and written communication skills.

**COURSE NUMBER/TITLE:** 12714101/12712101/ **Spanish for Native Speakers 1** (*SpanNatiSpk1*)

**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Reinforce, support, and, enhance your native speaking knowledge. Also, learn Spanish grammar through literature and composition. **Taught in Spanish ONLY**

**COURSE NUMBER/TITLE:** 12724101/12742101/ **Spanish for Native Speakers 2** (*SpanNatiSpk2*)

**PREREQUISITE/GRADES:** Spanish for Native Speakers I/ Grades 9, 10, 11, 12

**CREDIT:** 1

Reinforce and expand your native-speaker knowledge of the Spanish language, with emphasis on the study of Spanish grammar through literature and composition. **Taught in Spanish ONLY**

**COURSE NUMBER/TITLE:** 12364101/ **French 1** (*French1*)

**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Develop basic communication skills—listening, speaking, reading, and writing— with the emphasis on oral communication skills. Learn the basic structure of the French language within the cultural context, and become aware of possible careers through the emphasis on the importance of French in the world.

## 10th Grade Required Courses

English 2	Geometry	Integrated Science 2	New Mexico History and Geography	Foreign Language
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**COURSE NUMBER/TITLE:** 10024144/10022152/ **English 2** (*English2*)

**PREREQUISITE/GRADE:** English 1, or Honors English I/ Grades 9, 10, 11, 12

**CREDIT:** 1

Learn about the alternate aims and audiences of informational and argumentative writings through questioning, analysis, and evaluation; apply to your own writing of problem/solution, argumentative, and critical essays. Study literature of various genres, developing the skills to determine the author's intent and to recognize the techniques used to achieve that goal; apply these techniques in your own speaking and writing.

**COURSE NUMBER/TITLE:** 10025144/ **Honors English 2** (*HonEnglish2*)

**PREREQUISITE/GRADE:** Teacher or Counselor Recommendation/ Grades 9, 10

**CREDIT:** 1

In addition to doing what is described above under English 2, you will formulate critical questions to analyze and evaluate the alternate aims, audiences, and techniques of literary, informational, and argumentative writings; and write essays/give presentations making use of this knowledge. You will also work on an independently designed project involving research.

**COURSE NUMBER/TITLE:** 20344130/20342110/ **Geometry** (*Geometry*)

**PREREQUISITE/GRADES:** Algebra I/ Grades 9, 10, 11, 12

**CREDIT:** 1

Through an abstract, formal approach, study properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; rules of congruence, similarity, parallelism, and perpendicularity; and rules of angle measurement in triangles, including trigonometry, coordinate geometry, and transformational geometry.

**COURSE NUMBER/TITLE:** 20345133/ **Honors Geometry** (*HonGeometry*)

**PREREQUISITE/GRADES:** Teacher or Counselor Recommendation, Algebra 1/ Grades 9, 10, 11, 12

**CREDIT:** 1

In addition to what is described above under Geometry, enhance your knowledge by exploring topology, focus, and non-Euclidean geometries.

**COURSE NUMBER/TITLE:** 17414114/17412114/ **Integrated Science 2** (*IntegSci2*)

**PREREQUISITE/GRADE:** Integr. Sci. 1/ Grades 10, 11, 12

**CREDIT:** 1

Use scientific processes, technology, and reasoning to investigate chemical reactions; waves; biodiversity; genetics, biological evolution; characteristics and evolution of earth; and scale and contents of the universe.

**COURSE NUMBER/TITLE:** 17415114/ **Honors Integrated Science 2** (*H-IntegSci2*)

**PREREQUISITE/GRADE:** Integr. Sci. 1, Teacher or Counselor Recommendation/ Grades 9, 10, 11, 12

**CREDIT:** 1

Use scientific processes, technology, and mathematical reasoning to investigate chemical reactions; waves; biodiversity; genetics and biological evolution; characteristics and evolution of earth; and scale and contents of the universe. Develop, conduct, and share individual experiments to investigate concepts and topics in depth.

**COURSE NUMBER/TITLE:** 27174142/27172142/ **New Mexico History** (*NMHistory*)

**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Become more knowledgeable and aware of the cultural, economic, and political history of New Mexico and its geographical connections. Analyze the role that New Mexico plays in national and international arenas.

## 10th Grade Required Courses - Continued

English 2	Geometry	Integrated Science 2	New Mexico History and Geography	Foreign Language
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**Choice of one of the following modern/classical languages:**

**COURSE NUMBER/TITLE:** 12724101/12722101/ *Spanish for Native Speakers 2 (SpanNatiSpk2)*

**PREREQUISITE/GRADES:** Spanish for Native Speakers 1/ Grades 9, 10, 11, 12

**CREDIT:** 1

Reinforce and expand your native-speaker knowledge of the Spanish language, with emphasis on the study of Spanish grammar through literature and composition. **Taught in Spanish ONLY**

**COURSE NUMBER/TITLE:** 12534101/12532101/ *Spanish Non-Native Speakers 2 (SpanNonNativ2)*

**PREREQUISITE/GRADES:** Spanish Non-Native Speakers 1/ Grades 9, 10, 11, 12

**CREDIT:** 1

Develop communicative skills (with an emphasis on sustained communication, both oral and written) and increase your appreciation for the culture of Spanish-speaking countries, while experiencing the use of Spanish both in classroom management and in teaching concepts.

**COURSE NUMBER/TITLE:** 12734101/12732101/ *Advanced Spanish for Native Speakers 3 (AdvSpanNat3)*

**PREREQUISITE/GRADES:** Spanish Native Speakers 2/ Grades 9, 10, 11, 12

**CREDIT:** 1

Develop your advanced home/heritage language skills (reading, writing, listening and speaking) using literature, composition, public speaking, performance, and presentation. Study the cultures and traditions related to the target language at the regional, national and international levels. **Taught in Spanish ONLY**

**COURSE NUMBER/TITLE:** 12545101/ *Honors Spanish 3 (HonSpanish3)*

**PREREQUISITE/GRADES:** Span Non-Nat Speak 2, Span Nat Speak 2, or Adv. Span III/ Grades 10, 11, 12

**CREDIT:** 1

Continue to develop communicative skills, with an emphasis on sustained communication, both oral and written. Enhance your appreciation for the culture of Spanish speaking countries, while experiencing the use of Spanish both in classroom management and in teaching concepts. **Taught in Spanish Only.**

**COURSE NUMBER/TITLE:** 12374101/ *French 2 (French2)*

**PREREQUISITE/GRADES:** French 1/ Grades 9, 10, 11, 12

**CREDIT:** 1

Continue to develop communicative skills with an emphasis on sustained communication, both oral and written, and enhance your appreciation of the French culture, using French to a greater degree in the classroom.

## 11th Grade Required Courses

English 3	Algebra 2	Choice of <b>One</b> of the following: Integrated Science 3 - Biology Integrated Science 3 - Physics Integrated Science 3 - Chemistry	US History and Geography	Communication Skills Or 3rd Level of Modern Language
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**COURSE NUMBER/TITLE:** 10034145/10032153/ **English 3** (English3)

**PREREQUISITE/GRADE:** Grades 10, 11

**CREDIT:** 1

Continue to develop your writing and speaking skills, using clear, logical thinking, word choice, voice, and correct usage to write analytical and argumentative essays. Learn the techniques of writing research papers. Read and critically analyze works of literature, focusing on literary conventions and stylistic devices, in order to gain meaning, develop thematic connections, and synthesize ideas.

**COURSE NUMBER/TITLE:** 10035145/ **Honors English 3** (HonEnglish3)

**PREREQUISITE/GRADE:** Teacher or Counselor Recommendation/ Grades 10, 11

**CREDIT:** 1

In addition to doing what is described above under English 3, you will develop a literature research project that compares and contrasts stylistic features of different works, using literary criticism for support. Preparation for the PSAT and/or the AP English Language and Composition test may be included.

**COURSE NUMBER/TITLE:** 20414130/20412110/ **Algebra 2** (Algebra2)

**PREREQUISITE/GRADES:** Geometry/ Grade 10, 11, 12

**CREDIT:** 1

Learn field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; the complex number system; graphing of constant, linear, and quadratic equations; conic sections; properties of higher degree equations and operations with rational and irrational exponents.

**COURSE NUMBER/TITLE:** 20415133/ **Honors Algebra 2** (HonAlgebra2)

**PREREQUISITE/GRADES:** Geometry, Teacher or Counselor Recommendation/ Grades 10, 11, 12

**CREDIT:** 1

In addition to what is described above under Algebra 2, enhance your knowledge through exploration of polynomial, logarithmic, and exponential functions, relations, and their graphs; elementary probability and statistics; matrices and determinants; and sequences and series.

**COURSE NUMBER/TITLE:** 17214124/ **Integrated Science 3 - Chemistry** (IS3-Chem)

**PREREQUISITE/GRADE:** Integrated Science 2, Algebra 1, / Grades 10, 11, 12

**CREDIT:** 1

Explore and extend chemistry concepts and topics studied in Integrated Science 1 and 2.

**COURSE NUMBER/TITLE:** 17235914/ **Honors Integrated Science 3—Chemistry** (HonIS3Chem)

**PREREQUISITE/GRADE:** Integrated Science 2, Teacher or Counselor Recommendation/ Grades 10, 11, 12

**CREDIT:** 1

Explore and extend chemistry concepts at a college level. Develop, conduct, and share individual experiments to investigate concepts and topics in depth. Technology is integrated throughout the course. It is strongly recommended that students who wish to take AP Chemistry enroll in this course.

**COURSE NUMBER/TITLE:** 17314114/ **Integrated Science 3—Physics** (IS3-Physics)

**PREREQUISITE/GRADE:** Integrated Science 2, Algebra 2/ Grades 10, 11, 12

**CREDIT:** 1

Explore and extend physics concepts and topics studied in Integrated Science 1 and 2.

## 11th Grade Required Courses - Continued

English 3	Algebra 2	Choice of <b>One</b> of the following: Integrated Biology 3 Integrated Physics 3 Integrated Chemistry 3	US History and Geography	Communication Skills Or 3rd Level of Modern Language
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**COURSE NUMBER/TITLE:** 17335914/ *Honors Integrated Science 3—Physics (HonIS3Physics)*

**PREREQUISITE/GRADE:** Integrated Science 2, Teacher or Counselor Recommendation/ Grades 11, 12  
**CREDIT:** 1

Explore and extend physics concepts at a college level. Develop, conduct, and share individual experiments to investigate concepts and topics in depth. Technology is integrated throughout the course. It is strongly recommended that students who wish to take AP Physics enroll in this course.

**COURSE NUMBER/TITLE:** 17114114/17112113/ *Integrated Science 3 - Biology (IS3-Biology)*

**PREREQUISITE/GRADE:** Integrated Science 2/ Grades 9, 10, 11, 12

**CREDIT:** 1

Explore and extend biological concepts and topics studied in Integrated Science 1 and 2.

**COURSE NUMBER/TITLE:** 17125914/ *Honors Integrated Science 3 - Biology (HonIS3-Bio)*

**PREREQUISITE/GRADE:** Integrated Science 2, Teacher or Counselor Recommendation, Grades 11, 12

**CREDIT:** 1

Advanced Biology is the first semester course in preparation for the Advanced Placement Biology test. AP Biology is a demanding, college level course that includes the study of molecules and cells; genetics and biological evolution; and organisms and populations. The course includes virtual and hands-on laboratory experiments.

**COURSE NUMBER/TITLE:** 27294142/27292142/ *U.S. History/Geography (USHistoryGeo)*

**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Examine the history and impact of major eras, events, and individuals in United States History since the Civil War and Reconstruction. Included within this course is U.S. Geography to support geographical concepts as they relate to the understanding of the development of the United States.

**COURSE NUMBER/TITLE:** 27295141/ *Honors U.S. History/Geography (HonUSHistGeo)*

**PREREQUISITE/GRADES:** Counselor or Teacher Recommendation/Grades 10, 11, 12

**CREDIT:** 1

In addition to what is described above under U.S. History, do research to create projects that enhance your experience of history/geography. Strongly recommended for students who are considering AP US History.

**COURSE NUMBER/TITLE:** 10744255/10742152/ *Career Communications (CarCommunic)*

**PREREQUISITE/GRADE:** English 1, English 2

**CREDIT:** 1

Learn communication skills—reading, writing, speaking, and listening—with application to real-life situations in the world of work and study beyond high school. Write resumes, applications, business letters, and other practical forms. Give effective speeches and presentations that reflect your knowledge of the importance of purpose, audience, and appropriate voice. **[EITHER THIS COURSE OR LEVEL 3 OF A FOREIGN LANGUAGE CAN FULFILL COMMUNICATION SKILLS REQUIREMENT.]** (NM 22-13-1.1 of the New Mexico Statutes)

**COURSE NUMBER/TITLE:** 12734101/12732101/ *Advanced Spanish for Native Speakers 3 (AdvSpanNat3)*

**PREREQUISITE/GRADES:** Spanish Native Speakers 2/ Grades 9, 10, 11, 12

**CREDIT:** 1

Develop your advanced home/heritage language skills (reading, writing, listening and speaking) using literature, composition, public speaking, performance, and presentation. Study the cultures and traditions related to the target language at the regional, national and international levels. **Taught in Spanish ONLY**

**COURSE NUMBER/TITLE:** 12545101/ *Honors Spanish 3 (HonSpanish3)*

**PREREQUISITE/GRADES:** Span Non-Nat Speak 2, Span Nat Speak 2, or Adv. Span III/ Grades 10, 11, 12

**CREDIT:** 1

Continue to develop communicative skills, with an emphasis on sustained communication, both oral and written. Enhance your appreciation for the culture of Spanish speaking countries, while experiencing the use of Spanish both in classroom management and in teaching concepts. **Taught in Spanish ONLY**

## 11th Grade Required Courses - Continued

English 3	Algebra 2	Choice of <b>One</b> of the following: Integrated Biology 3 Integrated Physics 3 Integrated Chemistry 3	US History and Geography	Communication Skills Or 3rd Level of Modern Language
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**COURSE NUMBER/TITLE:** 12385101 / **Honors French 3** (*Hon French3*)

**PREREQUISITE/GRADES:** French 2/ Grades 10, 11, 12

**CREDIT:** 1

Continue to develop communicative skills and an appreciation of supplementary materials in literature, history, geography, and fine arts. Learn to manipulate the language through creative and expository writing, with an emphasis placed on cultural issues and the use of French in the classroom. Strongly recommended for students who are considering taking AP French.

## 12th Grade Required Courses

English 4			World History and Geography	
<b>Recommended English Course:</b> AP English	<b>Recommended Math Courses:</b> Trigonometry AP Calculus	<b>Recommended Science Courses:</b> AP Biology AP Chemistry AP Physics	<b>Recommended History Courses:</b> AP US History AP World History	<b>Recommended Courses:</b> AP Spanish

**COURSE NUMBER/TITLE:** 10044145/10042154/ **English 4** (*English4*)

**PREREQUISITE/GRADE:** English 3, Honors English 3/ Grades 11, 12

**CREDIT:** 1

Synthesize composition and literature into a cohesive whole, writing critical and comparative literary analyses. Compose reflective writing/oral presentations that honestly and analytically describe thoughts and feelings about experiences and/or texts. Analyze the impact of the culture/period of history on a work of literature. Develop an individual research project and apply research techniques.

**COURSE NUMBER/TITLE:** 10045145/ **Honors English 4** (*HonrEnglish4*)

**PREREQUISITE/GRADE:** Teacher or Counselor Recommendation, Grades 11,12

**CREDIT:** 1

Synthesize composition and literature into a cohesive whole, writing critical and comparative literary analyses. Compose reflective writing/oral presentations that honestly and analytically describe thoughts and feelings about experiences and/or texts. Analyze the impact of the culture/period of history on a work of literature. Develop an individual research project and apply research techniques.

**COURSE NUMBER/TITLE:** 27064142/27062142/ **World History/Geography** (*WorldHistGeo*)

**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Learn about the major eras and important turning points in world history from the Age of Enlightenment to the present. Study geographical concepts as they relate to the understanding of the changes throughout the world.

**COURSE NUMBER/TITLE:** 20435923/ **Honors Trigonometry** (*HonTrigonom*)

**PREREQUISITE/GRADES:** Teacher or Counselor Recommendation, Algebra 2/ Grades 10, 11, 12

**CREDIT:** 1

Prepare for eventual work in calculus and study trigonometric and circular functions; their inverses and graphs: relations among the parts of a triangle; trigonometric identities and equations; solutions of right and oblique triangles; and complex numbers. Enhancement topics include vectors, graphing in the polar coordinate system, and matrix algebra.

**COURSE NUMBER/TITLE:** 20575923/ **Honors Differential Calculus** (*HonDiffCalcul*)

**PREREQUISITE/GRADES:** Teacher or Counselor Recommendation, Honors Trigonometry/ Grade 11, 12

**CREDIT:** 1

Study elementary differential equations including first- and higher-order differential equations, partial differential equations, linear equations, systems of linear equations, transformations, series solutions, numerical methods, boundary value problems, and existence theorems.

## 12th Grade Required Courses - Continued

English 4			World History and Geography	
<b>Recommended English Course:</b> AP English	<b>Recommended Math Courses:</b> Trigonometry Hon. Diff Calculus AP Calculus	<b>Recommended Science Courses:</b> AP Biology AP Chemistry AP Physics	<b>Recommended History Courses:</b> AP US History AP World History	<b>Recommended Courses:</b> AP Spanish

### Recommended AP Courses

**COURSE NUMBER/TITLE:** 10135945/ **AP English** (APEngLan/Lit)

**PREREQUISITE/GRADE:** Teacher or Counselor Recommendation, English 4/ Grades 11, 12

**CREDIT:** 1

Challenge yourself with a college-level course that enables you to develop critical standards for evaluating literature. Analyze and evaluate the language, character, action, and theme in works of literary merit; enrich your understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of your own (including literary analysis, exposition, argument, narrative, and creative writing).

**COURSE NUMBER/TITLE:** 12025901/ **AP Spanish Language** (APSpanishLan)

**PREREQUISITE/GRADES:** Teacher or Counselor Recommendation/ Grades 11, 12

**CREDIT:** 1

Build upon prior knowledge, and develop an ability to understand others and express yourself in Spanish accurately, coherently, and fluently in both formal and informal situations. Upon completion have a large enough vocabulary to understand literary texts, magazine/newspaper articles, films and television productions, and other materials. (Parallels third-year college-level courses)

**COURSE NUMBER/TITLE:** 17155914/ **AP Biology** (APBiology)

**PREREQUISITE/GRADE:** Hon. Biology, Teacher or Counselor Recommendation/ Grades 11, 12

**CREDIT:** 1 **Spring semester only**

AP Biology is the second semester course in preparation for the Advanced Placement Biology test. AP Biology is a demanding college level course that includes a study of: molecules and cells; genetics and biological evolution; and organisms and populations. The course includes college-level virtual and hands-on laboratory experiments.

**COURSE NUMBER/TITLE:** 20585923/ **AP Calculus AB** (APCalculusAB)

**PREREQUISITE/GRADES:** Teacher or Counselor Recommendation / Grades 11, 12

**CREDIT:** 1

Learn the concepts of calculus and experience its methods and applications. Study elementary functions, properties of functions; and their graphs; limits and continuity; differential calculus (including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of-change problems); and integral calculus (including anti-derivatives and the definite integral).

**COURSE NUMBER/TITLE:** 27255941/ **AP U.S. History/Geography** (APUSHHistory)

**PREREQUISITE/GRADES:** Hon. US History/Geography; Teacher or Counselor Recommend./Grades 11, 12

**CREDIT:** 1

Prepare for the AP exam in U.S. History and learn the analytic skills and factual knowledge necessary to deal critically with problems in United States history. Learn to assess historical materials and weigh the evidence and interpretations presented in historical scholarship. The time period includes from discovery and settlement of the New World to the recent past.

**COURSE NUMBER/TITLE:** 27365941/ **AP US Government and Politics** (APGovernment)

**PREREQUISITE/GRADES:** Teacher or Counselor Recommendation / Grades 11, 12

**CREDIT:** 1

Prepare for the AP exam by developing an understanding of government and politics in the United States, involving both the study of general concepts used to interpret US politics and the analysis of specific case studies. The course will cover constitutional underpinnings of US government, political beliefs and behaviors, political parties and interest groups, the institutions and policy process of national government, civil rights, and liberties.



## Program for the Acquisition of Language (PAL)

Courses for Level 1	Courses for Level 2	Courses for Level 3
English Listening, Speaking, Understanding English Speaking and Writing English for Content English Language Literacy 1	English Language Literacy 2 English 1	English Language Literacy 3 English 2

**COURSE NUMBER/TITLE:** 10623810/ *English Listening, Understanding & Speaking (ESLLisUnSp)*

**PREREQUISITES/GRADES:** Bilingual Department or Counselor Recommendation/ Grades 9, 10, 11, 12

**CREDIT:** 1

Develop listening skills through conversational activities and increase your English speaking proficiency.

**COURSE NUMBER/TITLE:** 10623851/ *English Speaking & Writing (ESLSpkWrit)*

**PREREQUISITES/GRADES:** Bilingual Department or Counselor Recommendation/ Grades 9, 10, 11, 12

**CREDIT:** 1

Develop your English speaking skills through activities, which emphasize extended conversational skills. Also, learn to write sentences and place them in the context of a paragraph.

**COURSE NUMBER/TITLE:** 10623852/ *English for Content (ESLEngCont)*

**PREREQUISITES/GRADES:** Bilingual Department or Counselor Recommendation/ Grades 9, 10, 11, 12

**CREDIT:** 1

Develop the basic vocabulary necessary for listening, understanding, speaking, reading, and writing the terminology used in content area courses.

**COURSE NUMBER/TITLE:** 10623853/ *English Language Literacy 1 (ESL1)*

**PREREQUISITES/GRADES:** Bilingual Department or Counselor Recommendation/ Grades 9, 10, 11, 12

**CREDIT:** 1

Increase and expand your reading comprehension and writing skills.

**COURSE NUMBER/TITLE:** 10623843/ *English Language Literacy 2 (ESL2)*

**PREREQUISITES/GRADES:** Bilingual Department or Counselor Recommendation/ Grades 9, 10, 11, 12

**CREDIT:** 1

Learn to integrate the communication skills of listening, speaking, reading, and writing skills.

**COURSE NUMBER/TITLE:** 10014144/10012152/ *English 1 (English1)*

**PREREQUISITE/GRADE:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Build on your prior knowledge of good writing elements, especially word choice and conventions, to create narrative, expository, persuasive, and analytical/evaluative essays. Examine the elements of persuasion used in the media. Use reading, writing, speaking, and listening to explore the major genres and themes of literature.

**COURSE NUMBER/TITLE:** 10623844/ *English Language Literacy 3 (ESL3)*

**PREREQUISITES/GRADES:** Bilingual Department or Counselor Recommendation/ Grades 9, 10, 11, 12

**CREDIT:** 1

Learn to integrate the communication skills of listening, speaking, reading, and writing skills.

**COURSE NUMBER/TITLE:** 10024144/10022152/ *English 2 (English2)*

**PREREQUISITE/GRADE:** English 1, or Honors English I/ Grades 9, 10, 11, 12

**CREDIT:** 1

Learn about the alternate aims and audiences of informational and argumentative writings through questioning, analysis, and evaluation; apply to your own writing of problem/solution, argumentative, and critical essays. Study literature of various genres, developing the skills to determine the author's intent and to recognize the techniques used to achieve that goal; apply these techniques in your own speaking and writing.





## Getting a Head Start: Pathways for Chaparral High School Students

The next few pages of your pre-registration book for 2007-2008 are devoted to opportunities that offer you a head start on preparing for your future career. Each of these pathways consists of at least three sequential courses designed to teach you the concepts and skills needed to earn a nationally recognized professional certification. Additionally, each of these pathways is linked to the Dona Ana Community College, so you will earn college and graduation credits at the same time. Some of the courses are offered on campus and some require you to go to Dona Ana Community College your junior and senior year. Currently, Chaparral High School offers the following pathways in these clusters:

### **Architecture & Construction**

 Construction

 Design/Pre-Design

### **Arts, AV Technology, & Communication**

 Audio & Video Technologies

### **Business Management**

 Administrative Information Support Pathway

### **Education and Training**

 Teaching and Training Pathway

### **Hospitality and Tourism**

 Restaurant and Food Services Pathway

### **Manufacturing**

 Manufacturing Technology Program - Bridge Program

### **Transportation, Distribution, and Logistics Pathway**

 Facility and Mobile Maintenance (Automotive) Pathway

For more information about these pathways, read on in your pre-registration handbook. Do not forget to contact your counselor, I-CAT advisor, or a teacher in one of these pathways if you have more questions.



## Getting a Head Start: Earn High School Graduation Credit and College Credit at the Same Time

Many of these pathways are articulated with Dona Ana Community College and, in the case of Education & Training, with New Mexico State University. The chart on this page will update you on what courses give you High School graduation credit and also earn college credit. New courses are added on a regular basis, so be sure to check with your Guidance Counselor for an updated list.

High School Course Name	HS Credits	DACC Course Name and Number	College Hours Awarded
Auto Tech 1 and 2	2	OEAT 103	4
Auto Tech 3 and 4	2	OEAT 112	5
Business Applications 2 with MOS Word and PowerPoint Certifications	1	BOT 211 Information Processing I BOT 217 PowerPoint Presentations	3 3
Business Applications 2 with MOS EXCEL and Access Certifications	1	OECS 215 Spreadsheet Applications OECS 220 Database Applications	3 3
Culinary Arts 2	1	OEHS 201 Intro to Hospitality Industry	3
Culinary Arts 3 and 4 with Pro-Start A and B Certifications	2	OEHS 211 Food Production Principles	3
Construction 1 and 2	2	OEBT 114 Basic Carpentry	3
Construction 3 and 4	2	OEBT 112 Basic Masonry	4
Drafting 2	1	OEDG 108 Drafting Concepts	2
Drafting 3 and 4	1	OEDG 109 Computer Drafting Fundamentals	3



**Careers in designing, planning, managing, building and maintaining the built environment.**

Pathways	Sample Career Specialties/Occupations
<p><b>Design/ Pre-Construction</b></p>	<p>Architect • Architectural and Civil Drafter • Drafter • Regional and Urban Planner/Designer • Industrial Engineer • Materials Engineer • Mechanical Drafter • Environmental Designer • Civil Engineer (structural, geotechnical, transportation, etc.) • Programmer • Mechanical Engineer (HVAC, plumbing, fire protection, etc.) • Electrical Engineer (electronics, security, telecommunications) • Preservationist • Environmental Engineer (hydro engineering, acoustical, etc.) • Landscape Architect • Surveyor • Fire Prevention and Protection Engineer • Cost Estimator • Electrical and Electronic Engineering Technician • Civil Engineering Technician • Environmental Engineering Technician • Surveying and Mapping Technician •</p>
<p><b>Construction</b></p>	<p>General Contractor/Builder • Specialty Contractor • General Contractor/Builder • Specialty Contractor • Construction Engineer • Construction Manager • Superintendent • Project Manager • Construction Foreman • Estimator • Project Inspector • Manufacturer's Representative • Sales and Marketing Manager • Equipment and Material Manager • Scheduler • Education and Training Director/Coordinator • Safety Director • Construction Inspector • Subcontractor • Preservationist • Service Contractor • Field Supervisor • Specialty Trades Subcontractor • Mason • Construction Craft Laborer • Iron/Metalworker (structural and reinforcing) • Carpenter • System Installer • Electrician • Boilermaker • Electronic Systems Technician • Sheetmetal Worker • Security and Fire Alarm Systems Installer • Concrete Finisher • Glazier • Tile and Marble Setter • Landscaper/Groundskeeper • Elevator Installer • Roofer • Painter • Explosives Worker • Plasterer/Drywall • Paperhanger • Insulation Worker • Drywall Installer • Plumber • Pipe Fitter • Millwright • Heating, Ventilation, Air Conditioning and Refrigeration Mechanic • Carpet Installer • Electrician • Steamfitter •</p>
<p><b>Maintenance/ Operations</b></p>	<p>General Maintenance Contractor • Specialty Contractor • Construction Engineer • Construction Manager • Superintendent • Project Manager • Construction Foreman • Estimator • Facilities Engineer • Reliability Engineer • Environmental Engineer • Demolition Engineer • Project Inspector • Operating Engineer • Manufacturer's Representative • Sales and Marketing Manager • Equipment and Material Manager • Scheduler • Maintenance Planner/Scheduler • Maintenance Estimator • Security Controls Manager • Preservationist • Remodeler • Safety Director • Construction Inspector • Subcontractor • Service Contractor • Field Supervisor • Specialty Trades Subcontractor • Mason • Iron/Metalworker (structural and reinforcing) • Carpenter • System Installer • Electrician • Boilermaker • Cost Estimator • Sheetmetal Worker • Security and Fire Alarm System Installer • Concrete Finisher • Glazier • Tile and Marble Setter • Hazardous Materials Remover • Landscaper/Groundskeeper • Elevator Installer • Paperhanger • Insulation Worker • Drywall Installer • Insulation Worker • Plumber • Pipe Fitter • Millwright • Heating, Ventilation, Air Conditioning and Refrigeration Mechanic • Carpet Installer • Electrician • Steamfitter • Terrazo Worker and Finisher • Refractory Technician • Hydro Testing Technician • Thermal Control Technician • Restoration Technician • Wastewater Maintenance Technician • Highway Maintenance Worker</p>
<p><b>Cluster Knowledge and Skills</b></p>	
<p>❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking ❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills</p>	

**Career Cluster: Architecture and Construction**  
**Program of Study: Construction**  
**Certification: NCCER**

9th (Freshmen)	10th (Sophomore)	11th (Junior)	12th (Senior)
<b>Recommended Elective:</b> <i>Introduction to Construction</i>	<b>Pathway Elective:</b> <i>Construction 1</i>	<b>Pathway Elective:</b> <i>Construction 2</i>	<b>Pathway Elective:</b> <i>Construction 3</i> <b>Recommended Elective</b> <i>Construction OJT</i>

**COURSE NUMBER/TITLE:** 04147257/ *Introduction to Construction (IntroConstr)*

**PREREQUISITE/GRADE:** None/ Grades 9, 10, 11, 12

**CREDIT** 1

Gain an understanding of wood grades and construction methods, and learn skills such as laying sills and joists; erecting sills and rafters; applying sheathing, siding, and shingles; setting door jambs; and hanging doors. You may also gain skills for rough construction, finish work, or both. Learn to read blueprints, draft, use tools and machines properly and safely, erect buildings from construction lumber, perform finish work inside of buildings, and do limited cabinet work, while doing career exploration and gaining good work habits and employability skills.

**COURSE NUMBER/TITLE:** 04027237/ **Construction 1—Carpentry (Carpentry1)**

**PREREQUISITE/GRADE:** Intro to Construction/ Grades 10, 11, 12

**CREDIT** 1

Learn construction of commercial, residential, and institutional structures and gain experiences and information (typically including career opportunities and training requirements) about construction-related occupations such as carpentry, cabinetmaking, bricklaying, electrical trades, plumbing, concrete masonry, and so on. Engage in activities such as reading blueprints, preparing building sites, starting foundations, erecting structures, installing utilities, finishing surfaces, and providing maintenance.

**COURSE NUMBER/TITLE:** 04157257/ **Construction 2—Carpentry (Carpentry2)**

**PREREQUISITE/GRADE:** Construction 1/ Grades 11, 12

**CREDIT** 1

Gain much of the same knowledge as general carpentry courses (knowledge of various types and grades of woods, proper and safe use of hand and power tools, site selection and preparation), but with a special emphasis on construction methods applicable to floor, wall, roof, and/or stair framing, and, possibly, insulation installation and painting.

**COURSE NUMBER/TITLE:** 04157237/ **Construction 3—Masonry (Constr3Mason)**

**PREREQUISITE/GRADE:** Construction 2/ Grade 12

**CREDIT** 1

Take a specialized courses concerned with building construction or carpentry. All course work focuses upon a particular skill or set of skills related to one sub-topic, such as Floor Framing, Wall and Partition Framing, Interior Finishing, or Exterior Finishing. Upon completion you will have the opportunity to earn industry-recognized certification.

**COURSE NUMBER/TITLE:** 04237237/ **Construction 4—Masonry (Constr4Mason)**

**PREREQUISITE/GRADE:** Construction 2/ Grade 12

**CREDIT** 1

Take a specialized courses concerned with building construction or carpentry. All course work focuses upon a particular skill or set of skills related to one sub-topic, such as Floor Framing, Wall and Partition Framing, Interior Finishing, or Exterior Finishing. Upon completion you will have the opportunity to earn industry-recognized certification.

**COURSE NUMBER/TITLE:** 16067230/ **Work Experience (Pathway Only) (CPWorkExper)**

**PREREQUISITE/GRADE:** Construction 1, 2 & Teacher & Career Counselor Approval/ Grade 12

**CREDIT** 1

Apply and improve your workplace skills and pathway knowledge on the job.

**Career Cluster: Architecture and Construction**  
**Program of Study: Design & Pre-Construction**  
**Certification: NCCER**

9th (Freshmen)	10th (Sophomore)	11th (Junior)	12th (Senior)
<b>Recommended Elective:</b> <i>Introduction to Drafting</i>	<b>Pathway Elective:</b> <i>Drafting 1</i>	<b>Pathway Elective:</b> <i>Drafting 2</i>	<b>Pathway Elective:</b> <i>Drafting 3</i> <b>Recommended Elective</b> <i>Drafting OJT</i>

**COURSE NUMBER/TITLE:** 07024151 / **Introduction to Drafting** (IntroDrafting)

**PREREQUISITE/GRADE:** None/ Grades 9, 10, 11, 12

**CREDIT**

**1**

Gain a hands-on experience with AUTO CAD (computer-aided design software). Spend a significant amount of time on measurement in American standard, engineering, and metric systems. You will be able to work at a basic level in AUTO CAD upon completion of the course.

**COURSE NUMBER/TITLE:** 07037251 / **Drafting 1** (DraftArchit1)

**PREREQUISITE/GRADE:** Introduction to Drafting/ Grades 10, 11, 12

**CREDIT**

**1**

Use more advanced applications of the AUTO CAD software. Create a working set of residential drawings, to include, but not limited to, Site Plan, Foundation Plan, Floor Plan, Roof Framing Plan, Electrical Plan, Sections and Details.

**COURSE NUMBER/TITLE:** 07037231 / **Drafting 2** (DraftArchit2)

**PREREQUISITE/GRADE:** Drafting 1/ Teacher approval, Grades 11, 12

**CREDIT**

**1**

Acquaint yourself further with drawings, with the inclusion of presentation drawings, in order to sell a project more readily to an owner or a financial institution. Work on projects including real situations from the home or the district.

**COURSE NUMBER/TITLE:** 07077231 / **Drafting 3** (DraftArchit3)

**PREREQUISITE/GRADE:** Drafting 2, Teacher Approval/ Grades 11, 12

**CREDIT**

**1**

Individually focus on a special topic or with an industry-specific need.

**COURSE NUMBER/TITLE:** 07077251 / **Drafting 4** (DraftArchit4)

**PREREQUISITE/GRADE:** Drafting 2, Teacher Approval/ Grades 11, 12

**CREDIT**

**1**

Individually focus on a special topic or with an industry-specific need.

**COURSE NUMBER/TITLE:** 16067230 / **Work Experience (Pathway Only)** (CPWorkExper)

**PREREQUISITE/GRADE:** Drafting 1, 2, Teacher & Career Counselor Approval/ Grades 12

**CREDIT**

**1**

Apply and improve your workplace skills and pathway knowledge on the job. Job must be in the architecture or construction fields.



**Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and**

<b>Pathways</b>	<b>Sample Career Specialties/Occupations</b>
<b>Audio and Video Technologies</b>	Video Systems Technicians • Video Graphics, Special Effects, and Animation • Audio-Video Designers and Engineers • Technical Computer Support Technicians • State, Film, Video, and DVD Audio-Video System Service Technicians
<b>Printing Technologies</b>	Graphics and Printing Equipment Operators • Lithographers and Platemakers • Computer Typography and Composition Equipment Operators
<b>Visual Arts</b>	Commercial Photographers - Digital, Still, Video, Film • Interior Designers • Commercial/Residential and Home Furnishings coordinators • Graphic Designers • CAD Technicians • Fashion Illustrators • Textile Designers • Commercial Artists • Illustrators • Artists • Media Curators • Gallery Managers
<b>Performing Arts</b>	Production Managers • Digital, Video, Stage Cinematographers • Film/Video Editors • Dancers • Play Writers • Screen Writers • Screen Editors • Script Writers • Directors • Coaches, • Performers • Actors • Musicians • Make-Up Artists • Costume Designers • Stagecraft Designers • Lighters • Sets • Sound Effects • Acoustics • Painters
<b>Journalism and Broadcasting</b>	Audio/Video Operations • Control Room Technician • Station Managers • Radio & TV Announcers • Publishers • Editors • Journalists • Reporters - Print, Broadcast, Other
<b>Telecommunications Technologies</b>	Telecommunication Technicians • Telecommunication Equipment • Cable, Line Repairers/Installers • Telecommunication Computer Programmers • Systems Analysts
<b>Cluster Knowledge and Skills</b>	
❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking ❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills	

**Career Cluster: Arts, AV Technology & Communication**  
**Program of Study: Audio and Video Technologies**  
**Certification: NOCTI**

9th (Freshmen)	10th (Sophomore)	11th (Junior)	12th (Senior)
<b>Recommended Elective:</b> <i>Introduction to Mass Media Communication</i>	<b>Pathway Elective:</b> <i>Mass Media Production 1</i>	<b>Pathway Elective:</b> <i>Mass Media Production 2</i>	<b>Pathway Elective:</b> <i>Mass Media Production 3</i> <b>Recommended Elective</b> <i>Mass Media Production OJT</i>

**COURSE NUMBER/TITLE:** 19214573/ *Introduction to Mass Media Communication (MediaComm)*

**PREREQUISITE/GRADE:** None / Grades 9,10, 11, 12

**CREDIT** 1

Learn the technical knowledge and skills needed for television, video, film, and/or radio production. Learn the duties of the various crew positions (camera operator, audio operator, lighting technician, and technical director) needed to produce the newscast and all aspects of production, especially the specific vocabulary used in video and live production. Explore the various disciplines involved in production, including audio tools (microphones, audio mixers, speakers, playback machines), lighting, planning a project, and crew responsibilities, including providing for audio, lighting and video at school events.

**COURSE NUMBER/TITLE:** 19117562/ *Mass Media Production 1 (MediaProd1)*

**PREREQUISITE/GRADE:** Intro to Mass Media Communication/ Grades 10, 11, 12

**CREDIT** 1

Along with continuing to produce the daily televised announcements and work on school and possibly community events, you and your classmates will also be responsible for producing and editing more ambitious projects, i.e.; commercials, public service announcements, and training videos. In addition, you may have the opportunity to have your projects entered in the various regional film/video festivals and competitions.

**COURSE NUMBER/TITLE:** 19117671/ *Mass Media Production 2 (MediaProd2)*

**PREREQUISITE/GRADE:** Mass Media Production 1/ Grades 11, 12

**CREDIT** 1

Explore the materials, processes, and artistic techniques involved in film or videotape. Learn about the operation of a camera, lighting techniques, camera angles, depth of field, composition, storyboarding, sound capture and editing techniques. You may also study production values and various styles of filmmaking (documentary, storytelling, news magazines, animation, and so on). Study major filmmakers, cinematographers, and their films in order to develop your own artistic style.

**COURSE NUMBER/TITLE:** 19117670/ *Mass Media Production 3 (MediaProd3)*

**PREREQUISITE/GRADE:** Mass Media Production 2/Grade 12

**CREDIT** 1

The focus of this final course in the sequence is to refine your skills and knowledge about audio and video technologies in order to successfully pass the nationally recognized certification exam.

**COURSE NUMBER/TITLE:** 16067230/ *Work Experience (Pathway Only) (CPWorkExper)*

**PREREQUISITE/GRADE:** Mass Media Production 1, 2 & Teacher & Career Counselor Approval/ Grade 12

**CREDIT** 1

Apply and improve your workplace skills and pathway knowledge on the job. Job must be in the mass media field.

## Career Cluster: Arts/AV Technology & Communications

Note: The courses in this section fall under this career cluster, but do not have a certification opportunity for students.

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**COURSE NUMBER/TITLE:** 11234912/ **Marching Band** (MarchingBand)

**PREREQUISITE/GRADES:** Audition/ Grades 9, 10, 11, 12 **Fall semester only**

**CREDIT:** 1 *Can be taken four times for credit*

Develop techniques for playing brass, woodwind, and percussion instruments. Learn fundamental marching techniques, memorization skills, motor sensory skills, and the development of individual leadership and teamwork skills needed in a very large ensemble.

**COURSE NUMBER/TITLE:** 11254911/ **Contemporary Band** (ContempoBand)

**PREREQUISITE/GRADES:** Audition/ Grades 9, 10, 11, 12

**CREDIT:** 1 *Can be taken four times for credit*

Learn music styles from Dixieland to Big Band to Contemporary Jazz, with an emphasis on improvisation. Perfect your performance on brass, woodwind, and percussion.

**COURSE NUMBER/TITLE:** 11224911/ **Concert Band** (ConcertBand)

**PREREQUISITE/GRADES:** Audition/ Grades 9, 10, 11, 12 **Spring semester only**

**CREDIT:** 1 *Can be taken four times for credit*

Explore a variety of band literature styles ranging from Renaissance to contemporary. Improve and perfect your performance on brass, woodwind, and percussion.

**COURSE NUMBER/TITLE:** 11264916/ **Band—Drum Lines** (DrumLines)

**PREREQUISITE/GRADES:** Audition/ Grades 9, 10, 11, 12

**CREDIT:** 1 *Can be taken four times for credit*

Perfect your performance on percussion in order to perform in drum lines.

**COURSE NUMBER/TITLE:** 11304921/ **Chorus (Beginning Choir)** (Chorus)

**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Gain the opportunity to sing a variety of choral literature styles for mixed voices, and develop vocal technique and the ability to sing 2-3 parts in a group. Perform at seasonal concerts, school functions, and district/regional venues.

**COURSE NUMBER/TITLE:** 11304922/ **Chorus (Concert Choir)** (ConcertChoir)

**PREREQUISITE/GRADES:** Teacher Recommendation/ Grades 9, 10, 11, 12

**CREDIT:** 1 *Can be taken four times for credit*

Enjoy the opportunity to sing a variety of choral literature styles for mixed voices and develop vocal technique and the ability to sing 3-4 parts in a group. Perform in seasonal concerts, school functions, and district/regional venues.

**COURSE NUMBER/TITLE:** 11314912/ **Vocal Ensemble** (VocEnsemble)

**PREREQUISITE/GRADES:** Audition & Instructor Approval/ Gr. 9, 10, 11, 12 **Spring semester only**

**CREDIT:** 1 *Can be taken four times for credit*

Develop vocal techniques and the ability to sing parts in small ensemble or madrigal groups. Also, develop solo singing ability and learn one or several ensemble literature styles. Perform in seasonal concerts, school functions, and district/regional venues.

**COURSE NUMBER/TITLE:** 11614925/11612925/ **Art 1** (Art1)

**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Explore an art form, learn to create individual works of art, and discover career opportunities in the art world. Learn the language, materials, and processes of a particular art form, design elements, and principles supporting a work of art. Become more adept and develop your own artistic style. The course focus is on creation; however, the study of major artists, art movements, and styles may also be included.

**COURSE NUMBER/TITLE:** 11624921/ **Art 2** (Art2)

**PREREQUISITE/GRADES:** Art 1/ Grades 9, 10, 11, 12

**CREDIT:** 1

Build on topics learned in creative art one with a focus on drawing and painting, working with several media (such as pen and ink, pencil, chalk, watercolor, temper, oils, and acrylics, and so on).



## Career Cluster: Arts/AV Technology & Communications

Note: The courses in this section fall under this career cluster, but do not have a certification opportunity for students.

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**COURSE NUMBER/TITLE:** 11624925/**Art 3 (Art3)**  
**PREREQUISITE/GRADES:** Art 2/ Grades 9, 10, 11, 12,  
**CREDIT:** 1

Focus on developing your own style by creating independent projects, with teacher approval.

**COURSE NUMBER/TITLE:** 11814922/ **Art Portfolio (ArtPortfolio)**  
**PREREQUISITE/GRADES:** Art 3/ Instructor's Approval  
**CREDIT:** 1 *Can be taken four times for credit*

Create a professional body of work that reflects personal style and talent, and display your work publicly (REQUIRED).

**COURSE NUMBER/TITLE:** 11114128/ **Introduction to Theatre (IntroTheatre)**  
**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12  
**CREDIT:** 1

Explore the use your bodies and voices to create characters on stage. Learn how to bring the written word, whether poetry or prose, to life. Develop the self-confidence to perform in front of an audience, done in front of the class both as part of a group and individually.

**COURSE NUMBER/TITLE:** 11124121/ **Drama/Stagecraft 1 (DramaStage1)**  
**PREREQUISITE/GRADES:** Intro to Theatre/ Grades 9, 10, 11, 12  
**CREDIT:** 1

Improve acting, technical skills, and knowledge of theatrical history through ensembles that create performances for public audiences of various ages.

**COURSE NUMBER/TITLE:** 11124120/ **Drama/Stagecraft 2 (DramaStage2)**  
**PREREQUISITE/GRADES:** Theatre I/ Grades 10, 11, 12  
**CREDIT:** 1

Continue to improve your acting ability by studying the various approaches to acting, improvisation, and script analysis. In addition, study the use of costumes and makeup in character development, as well as stagecraft and lighting. You will be expected to perform in ensembles and monologues.

**COURSE NUMBER/TITLE:** 11034925/ **Expressive Movement (Flags) (ExprMoveFlags)**  
**PREREQUISITE/GRADES:** Audition/ Grades 9, 10, 11, 12  
**CREDIT:** 1 *Can be taken four times for credit*

Develop an ability to move expressively without being restricted to a particular dance form or specific dance techniques.

**COURSE NUMBER/TITLE:** 19034921/ **Journalism—Yearbook (JourYearbook)**  
**PREREQUISITE/GRADES:** Teacher Recommendation/ Grades 11, 12  
**CREDIT:** 1 *Can be taken four times for credit*

Produce the school newspaper, yearbook, or literary magazine. Beginning journalists learn the concepts of newsworthiness and press responsibility; develop skills in writing and editing stories, headlines, and captions; and learn the basics of production design, layout, and printing of a publication. Advanced journalists learn and practice refined journalistic techniques, participate in the formation and/or management of the production team, and gain experience in critical evaluation of story content, and the publication as a whole. Photography and photojournalism skills may be included.

**COURSE NUMBER/TITLE:** 19024911/ **Journalism—Newspaper (JourNewsPape)**  
**PREREQUISITE/GRADES:** Grades 11, 12  
**CREDIT:** 1 *Can be taken four times for credit*

Help produce the school newspaper! Beginning journalists learn the concepts of newsworthiness and press responsibility; develop skills in writing and editing stories, headlines, and captions; and learn the basics of production design, layout, and printing of a publication. Advanced journalists learn and practice refined journalistic techniques, participate in the formation and/or management of the production team, and gain experience in critical evaluation of story content, and the publication as a whole. Photography and photojournalism skills may be included.



**Business, Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.**

Pathways	Sample Career Specialties/Occupations
<b>Management</b>	Entrepreneurs · Chief Executives · General Managers · Accounting Manager · Accounts Payable Manager · Assistant Credit Manager · Billing Manager · Business & Development Manager · Compensation & Benefits Manager · Credit & Collections Manager · Payroll Manager · Risk Manager · Operations Managers · Public Relations Managers · Human Resource Managers · Management Analysts · Facilities Managers · Association Managers · Meeting & Convention Planners · Administrative Services Managers · Sports & Entertainment Managers · Hospital Management · Government Management · Public Organization Management · Manufacturing Management · Purchasing Management · First Line Supervisors · Public Relations Specialists · Senior Managers · Management Trainees
<b>Business Financial Management &amp; Accounting</b>	Accountants · Accounting Clerk · Accounting Supervisor · Adjuster · Adjustment Clerk · Assistant Treasurer · Auditor · Bookkeeper · Budget Analyst · Budget Manager · Billing Supervisor · Cash Manager · Controller · Merger & Acquisitions Manager · Price Analyst · Top Collections Executive · Top Investment Executive · Treasurer · Chief Financial Officer · Finance Director · Certified Public Accountant · Accounts Receivable Clerk · Cost Accountant · Financial Accountant · Billing Clerk · Payroll Accounting Clerk
<b>Human Resources</b>	Human Resources Managers · International Human Resources Managers · Human Resources Coordinators · Industrial Relations Director · Compensation & Benefits Managers · Employment & Placement Managers · Employee Assistance Plan Managers · Training & Development Managers · Human Resources consultant · Corporate Trainer · Training & Development Specialists · Conciliators/Mediators/Arbitrators · Employer Relations Representatives · Labor & Personnel Relations Specialists · Affirmative Action Coordinators · Equal Employment Opportunity Specialists · OSHA/ADA Compliance Officer · Pay Equity Officers · Interpreters & Translators · Organizational Behaviorists · Occupational Analysts · Compensation, Benefits & Job Analyst Specialists · Human Resources Information Systems Specialists · Meeting & Convention Planners · Employment Interviewers, Private or Public Employment Service · Personnel Recruiters · Human Resources Assistants · Payroll Professional · Assignment Clerks · Identification Clerks · Human Resources Generalist · Human Resources Clerks
<b>Business Analysis</b>	Systems Analyst · E-Commerce Analyst · Requirements Specialist · Marketing Analyst · Operations Research Analyst · Business Consultant · Business Analyst · Budget Analyst · Product Manager · Price Analyst
<b>Marketing</b>	Marketing Manager · Assistant Marketing Manager · Sales Engineer · Sales Manager · Sales Representative · Broker · Agents · Assistant Store Manager · Department Manager · Assistant Department Manager · Salesperson · Customer Service Supervisor · Customer Service Consultant · Counter Person · Customer Service Clerk · Product Manager · Project Manager · Research & Development Manager · Research & Management Supervisor · International Marketing Manager & Supervisor · International Merchandising Manager & Supervisor · Marketing Manager · Property, Real Estate and Association Manager & Supervisor · Small Business Owner & Entrepreneur · E-commerce Manager & Entrepreneur · Wholesale & Retail buyer · International Distribution Manager · Warehouse Manager · Logistics Manager/Supervisor · Logistics Manager/Coordinator · Market Researcher · Marketing Information Manager · Public Relations Specialist · Public Relations Writer · Copywriter · Media coordinator · Art Director · Graphic Designer · Event Manager · Advertising Salesperson · Route Salesperson · Distribution Worker · Wholesale, Freight, Stocking, Handling, Material Moving and Packing Worker · Traffic, Shipping, & Receiving Clerk · Demonstrators and Product Promoter · Retail Salespeople & Associate · Telemarketer
<b>Administrative &amp; Information Support</b>	Administrative Assistant · Executive Assistant · Office Manager · Administrative Support · Media Front Office Assistant · Information Assistant · Desktop Publisher · Customer Service Assistant · Data Entry Specialists · Receptionist · Communications Equipment Operator · Computer Operator · Court Reporter · Stenographer · Dispatcher · Shipping & Receiving Personnel · Records Processing Occupations including Library Assistant & Order Processor · Word Processor · Typists · Medical Transcriptionist · Legal Secretaries · Paralegals
<b>Cluster Knowledge and Skills</b>	
❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking ❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities	

States' Career Clusters Initiative, 2006, [www.careerclusters.org](http://www.careerclusters.org)

**Career Cluster:** Business Management and Administration  
**Program of Study:** Administrative and Information Support  
**Certification:** Microsoft Office Suite (MOS)

9th (Freshmen)	10th (Sophomore)	11th (Junior)	12th (Senior)
<b>Recommended Elective:</b> <i>General Computer Applications</i>	<b>Pathway Elective:</b> <i>Business Computer Applications 1</i> <b>Recommended Elective</b> <i>Business Law</i>	<b>Pathway Elective:</b> <i>Business Computer Applications 2</i>	<b>Pathway Elective:</b> <i>Business Computer Applications 3</i> <b>Recommended Elective</b> <i>Business OJT</i>

**COURSE NUMBER/TITLE:** 03024155/ **General Computer Applications** (GenCompApp1)

**PREREQUISITE/GRADE:** None/ Grades 9, 10, 11, 12

**CREDIT** 1

Learn the proper use of previously written software packages. Explore a wide range of applications, including (but not limited to) word processing, spreadsheet, graphics, and database programs, as well as (possibly) electronic mail and desktop publishing. Work on exercises and problems from any field, or define your own.

**COURSE NUMBER/TITLE:** 02027255/ **Business Computer Applications 1** (BusCompApp1)

**PREREQUISITE/GRADE:** General Computer Applications/ Grades 10, 11, 12

**CREDIT** 1

Explore and understand the duties and responsibilities most common in today's offices and gain knowledge of communication skills, information management, electronic media transmission, transcription, telephone etiquette, and computer applications that include Word and Excel.

**COURSE NUMBER/TITLE:** 03037255/ **Business Computer Applications 2** (BusCompApp2)

**PREREQUISITE/GRADE:** Business Computer Applications 1/ Grades 11, 12

**CREDIT** 1

Use previously written software packages properly. Explore wide ranges of applications, including (but not limited to) PowerPoint and Access. Study more advanced topics, such as electronic mail, desktop publishing, and telecommunications. Do exercises and problems that are specifically business related.

**COURSE NUMBER/TITLE:** 03037235/ **Business Computer Applications 3** (BusCompApp3)

**PREREQUISITE/GRADE:** Business Computer Applications 1, 2/Grade 12

**CREDIT** 1

Complete projects using computer applications, including word-processing, spreadsheets, database, presentation software, and Internet. Depending on certification sought, course may cover Office 2003, Advanced Course or IC3.

**COURSE NUMBER/TITLE:** 02504153/ **Business Law** (BusLaw)

**PREREQUISITE/GRADE:** None/ Grades 10, 11, 12

**CREDIT** 1

Explore the history and philosophy of law focusing on topics affecting students as future business leaders and employees, such as contracts, forms of business, credit, consumer protection, and constitutional rights and responsibilities. Investigate laws affecting minors and their families, and participate in a classroom mock trial demonstrating how a courtroom works.

**COURSE NUMBER/TITLE:** 02977230/ **Business OJT (Pathway Only)** (CP-BUS-OJT)

**PREREQUISITE/GRADE:** Business Applications 1, 2, Teacher and Career Counselor Approval/ Grade 12

**CREDIT** 1

Apply and improve your workplace skills and pathway knowledge on the job. Job must be in the business field.



**Planning, managing and providing education and training services, and related learning support services.**

Pathways	Sample Career Specialties/Occupations
<b>Administration and Administrative Support</b>	<ul style="list-style-type: none"> <li>▪ Superintendents, Principals, Administrators</li> <li>▪ Supervisors and Instructional Coordinators</li> <li>▪ Education Researchers, Test Measurement Specialists</li> <li>▪ College Presidents, Deans</li> <li>▪ Curriculum Developers</li> <li>▪ Instructional Media Designers</li> </ul>
<b>Professional Support Services</b>	<ul style="list-style-type: none"> <li>▪ Psychologists- Clinical, Developmental, Social</li> <li>▪ Social Workers</li> <li>▪ Parent Educators</li> <li>▪ Counselors</li> <li>▪ Speech-Language Pathologists and Audiologists</li> </ul>
<b>Teaching/Training</b>	<ul style="list-style-type: none"> <li>▪ Preschool, Kindergarten Teachers, Aids</li> <li>▪ Elementary Teachers, Aids</li> <li>▪ Secondary Teachers, Aids</li> <li>▪ Special Education Teachers, Aids</li> <li>▪ College/University Lecturers, Professors</li> <li>▪ Human Resource Trainers</li> <li>▪ Physical Trainers</li> <li>▪ Coaches</li> <li>▪ Child Care Directors</li> <li>▪ Child Care Workers</li> <li>▪ Child Life Specialist</li> <li>▪ Nanny</li> <li>▪ Early Childhood Teachers and Assistants</li> <li>▪ Teacher Aids</li> <li>▪ Group Workers and Assistants</li> </ul>
<b>Cluster Knowledge and Skills</b>	
<ul style="list-style-type: none"> <li>❖ Academic Foundations</li> <li>❖ Communications</li> <li>❖ Problem Solving and Critical Thinking</li> <li>❖ Information Technology Applications</li> <li>❖ Systems</li> <li>❖ Safety, Health and Environmental</li> <li>❖ Leadership and Teamwork</li> <li>❖ Ethics and Legal Responsibilities</li> <li>❖ Employability and Career Development</li> <li>❖ Technical Skills</li> </ul>	

**Career Cluster: Education and Training**  
**Program of Study: Teacher/Training**  
**Certification: ParaPro**

9th (Freshmen)/10th (Sophomore)	11th (Junior)	12th (Senior)
<b>Pathway Elective:</b> <i>Child Development</i>	<b>Pathway Elective:</b> <i>Teacher Cadet 1</i> <i>Teacher Cadet 2</i>	<b>Pathway Elective:</b> <i>Teacher Cadet 3</i> <b>Recommended Elective</b> <i>Educational OJT</i>

**COURSE NUMBER/TITLE:** 05057252/ **Child Development** (ChildDevelop)

**PREREQUISITE/GRADE:** None/ Graded 9, 10, 11, 12

**CREDIT:** 1

Learn about the physical, mental, emotional, and social growth and development of children from conception to pre-school age. Discover what parental responses the various stages require. In addition, study related topic, such as the prenatal and birth process; responsibilities and difficulties of parenthood; fundamentals of children's emotional and physical development; and appropriate care of infants, toddlers, and young children.

**COURSE NUMBER/TITLE:** 25347253/ **Teacher Cadet 1** (TCadet1)

**PREREQUISITE/GRADES:** Child Development/ Grades 10-12

**CREDIT:** 1

Interested in a career in teaching? Prepare to teach and guide others. Learn to develop teaching objectives, design lesson plans, and experience teaching in a controlled environment. Examine and practice teaching strategies, learning styles, time management and planning strategies, presentation and questioning skills, classroom management, and evaluation techniques.

**COURSE NUMBER/TITLE:** 25337253/ **Teacher Cadet 2** (TCadet2)

**PREREQUISITE/GRADES:** Teacher Cadet 1/ Grades 11-12

**CREDIT:** 1

Learn the principles underlying teaching and learning, the responsibilities and duties of teachers, and the techniques of imparting knowledge and information. Learn about classroom management, student behavior, leadership and human relations skills, assessment of student progress, and various teaching techniques. Also, have the opportunity to assist teachers at an elementary school or preschool.

**COURSE NUMBER/TITLE:** 25337233/ **Teacher Cadet 3** (TCadet3)

**PREREQUISITE/GRADES:** Teacher Cadet 2/ Grades 11-12

**CREDIT:** 1

Learn the principles underlying teaching and learning, the responsibilities and duties of teachers, and the techniques of imparting knowledge and information. Learn about classroom management, student behavior, leadership and human relations skills, assessment of student progress, and various teaching techniques. Also, have the opportunity to assist teachers at an elementary school or preschool.

**COURSE NUMBER/TITLE:** 25977230/ **Educational OJT (Pathway Only)** (CP-TEACH-OJT)

**PREREQUISITE/GRADE:** Teacher Cadet 1,2, Teacher and Career Counselor Approval/ Grade 12

**CREDIT:** 1

Apply and improve your workplace skills and pathway knowledge on the job. Job must be in the educational field.



**Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.**

Pathways	Sample Career Specialties/Occupations
<b>Restaurants and Food/Beverage Services</b>	<ul style="list-style-type: none"> <li>▪ General Manager ▪ Food &amp; Beverage Manager ▪ Kitchen Manager ▪ Catering &amp; Banquets Manager ▪ Service Manager ▪ Maitre'd ▪ Restaurant ▪ Owner ▪ Baker ▪ Brewer ▪ Caterer ▪ Executive Chef ▪ Cook ▪ Pastry &amp; Specialty Chef ▪ Bartender ▪ Restaurant Server ▪ Banquet Server ▪ Cocktail Server ▪ Banquet Set-Up Employee ▪ Bus Person ▪ Room Service Attendant ▪ Kitchen Steward ▪ Counter Server ▪ Wine Steward ▪ Host</li> </ul>
<b>Lodging</b>	<ul style="list-style-type: none"> <li>Front Office Manager ▪ Executive Housekeeper ▪ Director of Sales &amp; Marketing ▪ Chief Engineer ▪ Director of Human Resources ▪ Rooms Division Manager ▪ Director of Security ▪ Controller ▪ Food &amp; Beverage Director ▪ Resident Manager ▪ Director of Operations ▪ General Manager ▪ Regional Manager ▪ Quality Assurance Manager ▪ Corporate Management ▪ Lodging Management ▪ Owner/Franchisee Administrative Support ▪ Uniformed Services Support ▪ Communications Supervisor ▪ Front Desk Supervisor ▪ Reservations Supervisor ▪ Laundry Supervisor ▪ Room Supervisor ▪ Bell Captain ▪ Shift Supervisor ▪ Sales Professional ▪ Night Auditor ▪ Front Desk Employee ▪ Valet Attendant ▪ Bell Attendant ▪ Door Attendant ▪ Concierge ▪ PBX Operator ▪ Reservationists ▪ Guestroom Attendant ▪ Public Space Cleaner ▪ Laundry Attendant ▪ House Person ▪ Maintenance Worker ▪ Van Driver</li> </ul>
<b>Travel &amp; Tourism</b>	<ul style="list-style-type: none"> <li>Executive Director ▪ Assistant Director ▪ Director of Tourism Development ▪ Director of Membership Development ▪ Director of Communications ▪ Director of Visitor Services ▪ Director of Sales ▪ Director of Marketing and Advertising ▪ Director of Volunteer Services ▪ Director of Convention and Visitors Bureau ▪ Market Development Manager ▪ Group Sales Manager ▪ Events Manager ▪ Sales Manager ▪ Destination Manager ▪ Convention Services Manager ▪ Heritage Tourism Developer ▪ Travel Agent (Commercial &amp; Vacation) ▪ Event Planner ▪ Meeting Planner ▪ Special Events Producer ▪ Nature Tourism Coordinator ▪ Tour and Travel Coordinator ▪ Tourism Marketing Specialist ▪ Transportation Specialist ▪ Welcome Center Supervisor ▪ Visitor Center Counselor ▪ Tourism Assistant ▪ Executive Assistant ▪ Tour Guide ▪ Tour Operator ▪ Motor Coach Operator ▪ Tour and Ticket Reservationists ▪ Interpreter</li> </ul>
<b>Recreation, Amusements &amp; Attractions</b>	<ul style="list-style-type: none"> <li>Club Manager ▪ Club Assistant Manager ▪ Club Instructor ▪ Club Equipment &amp; Facility Maintenance ▪ Club Scheduler ▪ Club Event Planner ▪ Club Membership Developer ▪ Parks &amp; Gardens Director ▪ Parks &amp; Gardens Activity Coordinator ▪ Parks &amp; Gardens Access Management ▪ Parks &amp; Gardens Safety &amp; Security ▪ Parks &amp; Garden Ranger ▪ Resort Trainer ▪ Resort Instructor ▪ Resort Equipment Maintenance ▪ Resort Scheduler, Manager, Supervisor, Dealer, Slot Supervisor and Maintenance and Security &amp; Safety ▪ Fairs/Festival Event Planner, supervisor, manager, promotional developer ▪ Theme Parks/Amusement Parks Resale Department Manager, Retail Manager, Ride Operations Manager, Group Events Manager ▪ Family Centers Manager, Equipment Operator/Maintenance ▪ Historical /Cultural /Architectural Ecological Industrial Sites Guides/Ranger and Exhibit Developer ▪ Museums/ Zoos/Aquariums Docent, Animal Trainer and Handler and Exhibit Developer</li> </ul>
<b>Cluster Knowledge and Skills</b>	
<ul style="list-style-type: none"> <li>❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking</li> <li>❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills</li> </ul>	

States' Career Clusters Initiative, 2006, [www.careerclusters.org](http://www.careerclusters.org)

**Career Cluster:** Hospitality and Tourism  
**Program of Study:** Restaurant and Food Services  
**Certification:** Pro Start & Safe Serve

9th (Freshmen)	10th (Sophomore)	11th (Junior)	12th (Senior)
<b>Recommended Elective</b> <i>Nutrition</i>	<b>Pathway Elective:</b> <i>Culinary Arts 1</i>	<b>Pathway Elective:</b> <i>Culinary Arts 2</i>	<b>Pathway Elective:</b> <i>Culinary Arts 3</i> <b>Recommended Elective</b> <i>Culinary Arts Work Experience</i>

**COURSE NUMBER/TITLE:** 05044152/ **Nutrition 1** (*Nutrition1*)

**PREREQUISITE/GRADE:** None/ Grades 9, 10, 11, 12

**CREDIT** 1

Take advantage of the opportunity to study the composition, structure, and properties of foods and the chemical changes that occur during processing, storage, preparation, and consumption. Explore the effects of various materials, microorganisms, and processes on food products through a laboratory approach. You may learn about career opportunities in the food service industry, but this course is not career related.

**COURSE NUMBER/TITLE:** 05087252 **Culinary Arts 1** (*CulinaryArt1*)

**PREREQUISITE/GRADE:** Nutrition I/ Grades 10, 11, 12

**CREDIT** 1

This is the entry level course for students who are interested in a career in the Restaurant/Food Services Industry. You will learn about nutrition, healthy eating, and the preparation and service of food in an industry setting. This course will focus on how to prepare food on a large scale, how to preserve food nutrients throughout the food preparation process, and how to use and care for commercial cooking equipment. Additionally, information on how to properly store food, and maintain food service sanitation will be covered.

**COURSE NUMBER/TITLE:** 05327253/ **Culinary Arts 2** (*CulinaryArt2*)

**PREREQUISITE/GRADE:** Culinary Arts 1/ Grades 11, 12

**CREDIT** 1 *Can be taken twice for credit*

Explore your interest in the hospitality/food service industry by studying successful customer relations, safety and sanitation, food cost controls, accounting, and menu design to create weekly menus for catering or other entrepreneurial projects. Work independently in the lab and do research on the industry.

**COURSE NUMBER/TITLE:** 05327233/ **Culinary Arts 3** (*CulinaryArt3*)

**PREREQUISITE/GRADE:** Culinary Arts 2/ Grades 11, 12

**CREDIT** 1 *Can be taken twice for credit*

Study entrepreneurship, managerial techniques, catering, plate presentation, purchasing, inventory, and teamwork, using in-depth culinary skills and techniques, through operation of the on-campus restaurant and catering operation. Students who complete the program and pass the national exam leave high school with national certification. Intensive program that consists of two consecutive class periods

**COURSE NUMBER/TITLE:** 16067230/ **Work Experience (Pathway Only)** (*CPWorkExper*)

**PREREQUISITE/GRADE:** Culinary Arts 1, 2, Teacher and Career Counselor Approval/ Grade 12

**CREDIT** 1

Apply and improve your workplace skills and pathway knowledge on the job. Job must be in the culinary arts field.





**Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities, such as production planning and control, maintenance, and manufacturing/process engineering.**

Pathways	Sample Career Specialties/Occupations
<b>Production</b>	Assemblers ▪ Automated Manufacturing Technicians ▪ Bookbinders ▪ Calibration Technicians ▪ Electrical Installers and Repairers ▪ Electromechanical Equipment Assemblers ▪ Extruding and Drawing Machine Setters/Set-Up Operators ▪ Extrusion Machine Operators ▪ Foundry Workers ▪ Grinding, Lapping, and Buffing Machine Operators ▪ Hand Packers and Packagers ▪ Hoist and Winch Operators ▪ Instrument Makers ▪ Large Printing Press Machine Setters and Set-Up Operators ▪ Machine Operators ▪ Managers, Supervisors ▪ Medical Appliance Makers ▪ Milling Machine Setters, Set-Up Operators ▪ Millwrights ▪ Operators, Tenders, Cutters/Brazers, Soldering, Machine Operations ▪ Painters ▪ Pattern & Model Makers ▪ Precision Layout Workers ▪ Precision Optical Goods Workers ▪ Production Associates ▪ Sheet Metal Workers ▪ Solderers and Brazers ▪ Tool and Die Makers ▪ Welders
<b>Manufacturing Production Process Development</b>	Design Engineers ▪ Electrical and Electronic Technicians and Technologists ▪ Electronics Engineers ▪ Engineering and Related Technicians and Technologists ▪ Engineering Technicians ▪ Industrial Engineers ▪ Labor Relations Managers ▪ Manufacturing Engineers ▪ Manufacturing Technicians ▪ Power Generating and Reactor Plant Operators ▪ Precision Inspectors, Testers, and Graders ▪ Process Improvement Technicians ▪ Production Managers ▪ Purchasing Agents ▪ Supervisors
<b>Maintenance, Installation &amp; Repair</b>	Biomedical Equipment Technicians ▪ Boilermakers ▪ Communication System Installers/Repairers ▪ Computer Installers/Repairers ▪ Computer Maintenance Technicians ▪ Electrical Equipment ▪ Installers/Repairers ▪ Facility Electricians ▪ Industrial Electronic ▪ Installers/Repairers ▪ Industrial Facilities Managers ▪ Industrial Machinery Mechanics ▪ Industrial Maintenance Electricians ▪ Industrial Maintenance Mechanics ▪ Industrial Maintenance Technicians ▪ Instrument Calibration and Repairers ▪ Instrument Control Technicians ▪ Job/Fixture Designers ▪ Laser Systems Technicians ▪ Maintenance Repairers ▪ Major Appliance Repairers ▪ Meter Installers/Repairers ▪ Millwrights ▪ Plumbers, Pipe Fitters and Steam Fitters ▪ Security System Installers/Repairers
<b>Quality Assurance</b>	Calibration Technicians ▪ Inspectors ▪ Lab Technicians ▪ Process Control Technicians ▪ Quality Control Technicians ▪ Quality Engineers ▪ SPC Coordinators
<b>Logistics &amp; Inventory Control</b>	Communications, Transportation and Utilities Managers ▪ Dispatchers ▪ Freight, Stock, and Material Movers ▪ Industrial Truck and Tractor Operators ▪ Logistical Engineers ▪ Logisticians ▪ Material Associates ▪ Material Handlers ▪ Material Movers ▪ Process Improvement Technicians ▪ Quality Control Technicians ▪ Traffic Managers ▪ Traffic, Shipping, and Receiving Clerks
<b>Health, Safety and Environmental Assurance</b>	Environmental Engineers ▪ Environmental Specialists ▪ Health and Safety Representatives ▪ Safety Coordinators ▪ Safety Engineers ▪ Safety Team Leaders ▪ Safety Technicians
<b>Cluster Knowledge and Skills</b>	
<ul style="list-style-type: none"> <li>❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking</li> <li>❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork</li> <li>❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills</li> </ul>	

States' Career Clusters Initiative, 2006, [www.careerclusters.org](http://www.careerclusters.org)



**Career Cluster:** Manufacturing  
**Program of Study:** Manufacturing Technology  
**Certification:** WIN Certification

9th Freshmen/ 10th (Sophomore)	11th (Junior)	12th (Senior)
<b>Pathway Elective:</b> <i>Drafting 1</i>	<b>Pathway Elective:</b> <i>Bridge 1: Blueprint Reading</i> <i>Bridge 2: Industrial Electricity</i> <i>Bridge 3: General Technology Education</i> <i>Bridge 4: Materials and Processes</i>	<b>Pathway Elective:</b> <i>Bridge 5: Manufacturing Systems</i> <i>Bridge 6: Technology Education</i> <i>OJT: Work Experience</i>

**COURSE NUMBER/TITLE:** 07024151 / *Introduction to Drafting (IntroDraft)*

**PREREQUISITE/GRADE:** None/ Grades 9, 10, 11, 12

**CREDIT:** 1

Gain a hands-on experience with AUTO CAD (computer-aided design software). Spend a significant amount of time on measurement in American standard, engineering, and metric systems. You will be able to work at a basic level in AUTO CAD upon completion of the course.

**COURSE NUMBER/TITLE:** 07139254/ *Bridge 1 (Bridge1)*

**PREREQUISITE/GRADE:** Enrolled at DABCC Manufacturing Technology / Grades 11, 12

**CREDIT:** 1

Gain the knowledge and ability to interpret the lines, symbols, and conventions of drafted blueprints specific to the manufacturing industry.

**COURSE NUMBER/TITLE:** 04449254/ *Bridge 2 (Bridge2)*

**PREREQUISITE/GRADE:** Enrolled at DABCC Manufacturing Technology / Grades 11, 12

**CREDIT:** 1

Explore many of the same topics as Electricity – Comprehensive courses. In Industrial Electricity apply the knowledge and skills gained particularly to the electrical systems used in industry. Because of this emphasis, you may also learn about installation of transformers and control devices, emergency generator systems, and other industrial applications as course topics.

**COURSE NUMBER/TITLE:** 16119254/ *Bridge 3 (Bridge3)*

**PREREQUISITE/GRADES:** Enrolled at DABCC Manufacturing Technology/ Grades 11, 12

**CREDIT:** 1

Learn about tools, machines, processes, and systems encountered in manufacturing-related occupations; develop manual skills to use these tools in a variety of applications; and explore technology use in manufacturing products, transporting goods and people, effective communication, and efficient energy conversion. Work on drawing and planning, electricity, metalwork, plastics, power technology, general safety and careers.

**COURSE NUMBER/TITLE:** 16129254/ *Bridge 4 (Bridge4)*

**PREREQUISITE/GRADES:** Enrolled at DABCC Manufacturing Technology/ Grades 11, 12

**CREDIT:** 1

Learn about the tools, machines, and systems that encountered in manufacturing-related occupations. Course emphasis is in the analysis, testing, and processing of metals, plastics, woods, ceramics, and composite materials.

**COURSE NUMBER/TITLE:** 16249254/ *Bridge 5 (Bridge5)*

**PREREQUISITE/GRADES:** Enrolled at DABCC Manufacturing Technology / Grades 11, 12

**CREDIT:** 1

Learn how materials are processed and transformed using various methods. Processing techniques covered may include casting, forming, separating, assembling, and finishing. Also, study management techniques in planning, organizing, and controlling various segments of the manufacturing process, including design, engineering, production, and marketing.

**Career Cluster:** Manufacturing - Continued  
**Program of Study:** Manufacturing Technology  
**Certification:** WIN Certification

10th (Sophomore)	11th (Junior)	12th (Senior)
<b>Pathway Elective:</b> <i>Drafting 1</i>	<b>Pathway Elective:</b> <i>Bridge 1: Blueprint Reading</i> <i>Bridge 2: Industrial Electricity</i> <i>Bridge 3: General Technology Education</i> <i>Bridge 4: Materials and Processes</i>	<b>Pathway Elective:</b> <i>Bridge 5: Manufacturing Systems</i> <i>Bridge 6: Technology Education</i> <i>OJT: Work Experience</i>

**COURSE NUMBER/TITLE:** 16959254/Bridge 6 (*Bridge6*)

**PREREQUISITE/GRADES:** Enrolled at DABCC Manufacturing Technology/ Grades 11, 12

**CREDIT:** 1

Learn the skills and knowledge necessary or useful for particular occupations or technologies within an industrial or technological field. Particular topics and skills, or their applications, covered in these courses may vary with the occupation or technology.

**COURSE NUMBER/TITLE:** 16067230/ **Work Experience (Pathway Only)** (*CPWorkExper*)

**PREREQUISITE/GRADE:** 3 Bridge Courses Completed, Teacher and Career Counselor Approval/ Grades 12

**CREDIT:** 1

Apply and improve your workplace skills and pathway knowledge on the job. Job must be in the manufacturing field.



**Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.**

Pathways	Sample Career Specialties/Occupations
<p><b>Transportation Operations</b></p>	<p><b>Air/Space Transportation:</b> Transportation managers—air • Airplane pilots/copilots • Commercial pilots • Flight engineers • Flight attendants • Dispatchers-air • Traffic managers • Air traffic controllers • Aircraft cargo handling supervisors • Airfield operations specialists • Other airlines operations and support jobs</p> <p><b>Rail Transportation:</b> Transportation managers---rail • Dispatchers-rail • Traffic managers • Locomotive engineers, • Locomotive firers • Rail yard conductors and yardmasters • Railroad brake, signal and switch operators (including train crew members and yard workers) • Rail yard engineers, dinkey operators, and hostlers • Other railyard and terminal operations and support jobs</p> <p><b>Water Transportation:</b> Transportation managers—water * Dispatchers—water • Traffic managers • Captains • Mates • Pilots of water vessels • Sailors and marine oilers • Able seamen • Ordinary seamen • Ship and boat captains • Ship engineers • Motorboat operators • Bridge and lock tenders • Other port/harbor/waterway/marina operations and support jobs</p> <p><b>Road Transportation:</b> Transportation managers—road • Dispatchers--Truck/bus/taxi, traffic managers • Truck drivers-heavy • Truck drivers-tractor-trailer • Truck drivers—light or delivery services • Bus drivers-transit and intercity • Bus drivers-school • Taxi drivers and chauffeurs • Truck/bus/taxi terminal operations and support jobs</p> <p><b>Transit Systems:</b> Transportation managers—mass transit • Dispatchers-bus • Traffic managers • Dispatchers-rail • Traffic managers • Bus drivers—transit and intercity • Subway and streetcar operators • Other terminal operations and support jobs</p>
<p><b>Logistics Planning and Management Services</b></p>	<p>Logisticians • Logistics managers • Logistics Engineers • Logistics analysts • Logistics consultants • International logistics</p>
<p><b>Warehousing and Distribution Center Operations</b></p>	<p>Warehouse managers • Storage and distribution managers • Industrial and packaging engineers • Traffic, shipping and receiving clerks • Production, planning, expediting clerks • First-line supervisors/managers of helpers • Laborers, and material movers-hand • First-line supervisors/managers of transportation and material-moving machine and vehicle operators • Laborers and freight, stock and material movers, hand • Car, truck and ship loaders • Packers and packagers-hand • Other packaging/packing/material handling and moving jobs</p>
<p><b>Facility and Mobile Equipment Maintenance</b></p>	<p><b>Facility:</b> Facility maintenance managers and engineers • Industrial equipment mechanics • Industrial electricians, • Electrical/electronic technicians • Other facility/terminal maintenance jobs</p> <p><b>Mobile Equipment:</b> Mobile equipment maintenance managers • Electrical and electronic installers and repairers—transportation equipment • Mobile heavy equipment mechanics</p> <p><b>Air/Space</b>—Aerospace engineering and operations technicians • Aircraft mechanics and service technicians • Airframe mechanics • Power plant mechanics • Aircraft engine specialists • Aircraft body and bonded structure repairers • Avionics technicians. <b>Water</b>—Motorboat mechanics • Ship mechanics and repairers • Motorboat mechanics • Automotive/truck mechanics and body repairers <b>Rail</b>—Rail car repairers • Signal and track switch repairers • Rail locomotive and car mechanics and repairers <b>Road</b>—Electronic equipment installers and repairers—motor vehicle • Automotive body and related repairers • Automotive glass installers and repairers • Automotive service technicians and mechanics • Automotive master mechanics • Automotive specialty technicians • Bus and truck mechanics and diesel engine specialists • Motorcycle mechanics • Bicycle repairers • Tire repairers and changers</p>



**Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.**

Pathways	Sample Career Specialties/Occupations
<b>Transportation Systems/ Infrastructure Planning, Management, and Regulation</b>	<p><b>General</b>—Intermodal--Urban and regional planners • Civil engineers • Engineering technicians • Surveying and mapping technicians • Government service executives • Environmental compliance inspectors <b>Air/Space</b>—Air traffic controllers • Aviation inspectors  <b>Road</b>—Traffic engineers • Traffic technicians • Motor vehicle inspectors • Freight inspectors,  <b>Rail</b>—Railroad inspectors <b>Water</b>—Marine cargo inspectors • Vessel traffic control specialists  <b>Transit</b>—Public transportation inspectors <b>Other</b>---Other government agency managers • Regulators • Inspectors, other federal/state/local transportation agency jobs</p>
<b>Health, Safety and Environmental Management</b>	Health and safety managers • Industrial health and safety engineers • Environmental scientists and specialists • Environmental science and protection technicians • Environmental managers and engineers • Environmental compliance inspectors * Safety analysts
<b>Sales and Service</b>	Marketing managers, • Sales managers • Sales representatives—transportation/logistics services • Reservation, travel and transportation agents/clerks • Cargo and freight agents • Customer service managers, • Customer service representatives • Customer order and billing clerks • Cashiers, counter and rental clerks
<b>Cluster Knowledge and Skills</b>	
<ul style="list-style-type: none"> <li>❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking</li> <li>❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills</li> </ul>	

**Career Cluster:** Transportation, Distribution, & Logistics  
**Program of Study:** Facilities and Mobile Equipment Maintenance  
**Certification:** Automotive Service Excellence (ASE)

9th (Freshmen)	10th (Sophomore)	11th (Junior)	12th (Senior)
<b>Recommended Elective</b> <i>Introduction to Automobiles</i>	<b>Pathway Elective:</b> <i>Auto Tech 1</i>	<b>Pathway Elective:</b> <i>Auto Tech 2</i> <i>Auto Tech 3</i>	<b>Pathway Elective:</b> <i>Auto Tech 4</i> <b>Recommended Elective</b> <i>Work Experience</i>

**COURSE NUMBER/TITLE:** 09014152/*Introduction to Automobiles (IntroAuto)*

**PREREQUISITE/GRADE:** None/ Grades 9, 10, 11, 12

**CREDIT** 1

Learn to do your own auto maintenance, while exploring future careers in automotive technologies. Look at the charging system, cranking circuit, cooling system, lubrication system, and braking system, with limited work on batteries, ignition systems, and cooling systems. Through Skills USA acquire the skills required by employers. Curriculum is ASE/ Auto Service Excellence, a U.S. manufacturer's nationally recognized training system.

**COURSE NUMBER/TITLE:** 09127252/ **Auto Tech 1 (AutoTech1)**

**PREREQUISITE/GRADE:** Intro to Automobiles/ Grades 10, 11, 12

**CREDIT** 1

Diagnose and repair automobile engines and support systems, such as brakes, cooling, drive trains, electrical/ electronics components, emission, fuel, ignition, steering, suspension, and transmission. Interpret and use repair manuals, practice safety, and gain employability skills (including shop management and entrepreneurship). Learn how Skills USA applies to future jobs. Curriculum is ASE/ Auto Service Excellence.

**COURSE NUMBER/TITLE:** 09127232/ **Auto Tech 2 (AutoTech2)**

**PREREQUISITE/GRADE:** Auto Tech 1/ Grades 11, 12

**CREDIT** 1

Diagnose and repair automobile engines and support systems, such as brakes, cooling, drive trains, electrical/ electronics components, emission, fuel, ignition, steering, suspension, and transmission. Interpret and use repair manuals, practice safety, and gain employability skills (including shop management and entrepreneurship). Learn how Skills USA applies to future jobs. Curriculum is ASE/ Auto Service Excellence.

**COURSE NUMBER/TITLE:** 09137232/ **Auto Tech 3 (AutoTech3)**

**PREREQUISITE/GRADE:** Auto Tech 2/ Grade 11, 12

**CREDIT** 1

Focus on particular topics in the field of auto mechanics. Continue to work on the diagnosis and repair of automobiles, with concentration on ignition systems, A/C, and automatic transmission.

**COURSE NUMBER/TITLE:** 09137252/ **Auto Tech 4 (AutoTech4)**

**PREREQUISITE/GRADE:** Auto Tech 3/ Grade 11, 12

**CREDIT** 1

Focus on particular topics in the field of auto mechanics. Continue to work on the diagnosis and repair of automobiles, with concentration on computer command and fuel systems.

**COURSE NUMBER/TITLE:** 16067230/ **Work Experience (Pathway Only) (CPWorkExper)**

**PREREQUISITE/GRADE:** Auto Tech 3, Teacher and Career Counselor Approval/ Grade 12

**CREDIT** 1

Apply and improve your workplace skills and pathway knowledge on the job. Job must be in the automotive service field.

## *Design Your Own Pathway!*

In the preceding pages you explored pathways that have been fully developed—they have a direct path between the courses you take, nationally recognized certificates, and opportunities for post-secondary education even when you are still in high school. The next pages are devoted to pathways that exist in all of the sixteen career clusters, but the road that leads to these pathways is still under construction.

If your career objective is found in one of the pathways in this section, you will get the opportunity to “build your own pathway” to achieve your dream. On the next page you will find a template to design your own pathway. You will need some “tools” to help you along the way and some information to help make decisions.

- *Don't plan alone.* Enlist your I-CAT advisor, career counselor, parent, a teacher, principal or academic counselor to help you decide what courses will help you get to your goal and to assist you in creating your own pathway.
- *Log on to Career Cruising.* Take the inventory; connect to the profiles of successful people who chose the same career you're interested in. Career Cruising will give you information on how to prepare, what post-secondary schools offer degrees in your fields, and other useful information you can use to help you design your pathway.
- *Explore all your options.* Your career and academic counselors can provide you with information on what you can take as a junior and/or senior at Doña Ana Community College, even though you are not in one of the other pathways. Additionally, you may be able to enroll at New Mexico State University or University of Texas at El Paso to take classes, if you qualify and meet other criteria.

Even if you do want to journey down one of the pathways in the preceding pages, spend some time to explore the careers in the following clusters. You may find something that sparks your interest.

**Agriculture and Natural Resources**

**Finance**

**Government and Public Administration**

**Health Science Cluster**

**Human Services**

**Information Technology**

**Law, Public Safety, Corrections & Security**

**Marketing, Sales & Service**

**Science, Technology & Engineering**



**Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.**

Pathways	Sample Career Specialties/Occupations
<b>Therapeutic Services</b>	Acupuncturist • Anesthesiologist Assistant • Art / Music / Dance Therapist(s) • Athletic Trainer • Audiologist • Certified Nursing Assistant • Chiropractor • Dental Assistant / Hygienist • Dental Lab Technician • Dentist • Dietician • Dosimetrist • EMT • Exercise Physiologist • Home Health Aide • Kinesiotherapist • Licensed Practical Nurse • Massage Therapist • Medical Assistant • Mortician • Occupational Therapist/Asst • Ophthalmic Medical Personnel • Optometrist • Orthotist/Prosthetist • Paramedic • Pharmacist/ Pharmacy Tech • Physical Therapist / Assistant • Physician (MD/DO) • Physician's Assistant • Psychologist • Recreation Therapist • Registered Nurse • Respiratory Therapist • Social Worker • Speech Language Pathologist • Surgical Technician • Veterinarian / Vet Tech
<b>Diagnostics Services</b>	Admitting Clerk • Applied Researcher • Community Services Specialists • Data Analyst Epidemiologist • Ethicist • Health Educator • Health Information Coder • Health Information Services • Healthcare Administrator • Medical Assistant • Medical Biller/Patient Financial • Services • Medical Information Technologist • Medical Librarian/Cybrarian Patient Advocates • Public Health Educator Reimbursement Specialist (HFMA) • Risk Management • Social Worker • Transcriptionist • Unit Coordinator • Utilization Manager
<b>Health Informatics</b>	Biomedical / Clinical Engineer • Biomedical / Clinical Technician • Central Services • Environmental Health and Safety • Environmental Services • Facilities Manager • Food Service • Hospital Maintenance Engineer • Industrial Hygienist • Materials Management • Transport Technician
<b>Support Services</b>	Biochemist • Bioinformatics Associate • Bioinformatics Scientist • Bioinformatics Specialist • Biomedical Chemist • Biostatistician • Cell Biologist • Clinical Trials Research Associate • Clinical Trials Research Coordinator • Geneticist • Lab Assistant-Genetics • Lab Technician • Microbiologist • Molecular Biologist • Pharmaceutical Scientist • Quality Assurance Technician • Quality Control Technician • Regulatory Affairs Specialist • Research Assistant • Research Associate • Research Scientist • Toxicologist
<b>Cluster Knowledge and Skills</b>	
❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking ❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills	

## Career Cluster: Health Services

*Note: The courses in this section fall under this career cluster, but do not have a certification opportunity for students.*

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**COURSE NUMBER/TITLE:** 05044152/ **Nutrition 1** (Nutrition1)

**PREREQUISITE/GRADE:** None/ Grades 9, 10, 11, 12

**CREDIT** 1

Take advantage of the opportunity to study the composition, structure, and properties of foods and the chemical changes that occur during processing, storage, preparation, and consumption. Explore the effects of various materials, microorganisms, and processes on food products through a laboratory approach. You may learn about career opportunities in the food service industry, but this course is not career related.

**COURSE NUMBER/TITLE:** 17134934/17132134/ **Anatomy/Physiology 1** (AnatomyPhys1)

**PREREQUISITE/GRADES:** Biology 1/ Grades 10, 11, 12

**CREDIT:** 1

Continue to explore and extend biological concepts studied in Integrated Science 1 and 2. Topics include cells and tissues and functional systems. Compare human anatomy to that of other mammals through virtual or hands-on mammalian dissection. Develop conduct, and share at least one individual experiment to investigate a concept or topic in depth. Concepts and terminology developed in the course provide a foundation for students interested in a medical or allied health field.

**COURSE NUMBER/TITLE:** 30254000/ **Athletic Training** (AthleTrainer)

**PREREQUISITE/GRADE:** Instructor's Approval/ Grades 9, 10, 11, 12

**CREDIT** 1 *Can be taken four times for credit*

Gain and develop skills in the techniques of athletic training, including injury prevention, first aid, and physical rehabilitation methods. Utilize skills to provide care for members of school's athletic teams. Course requires after-school and weekend commitment.





**Preparing individuals for employment in career pathways that relate to families and human needs.**

<b>Pathways</b>	<b>Sample Career Specialties/Occupations</b>
<b>Early Childhood Development &amp; Services</b>	Directors • Childcare Facilities Assistant Directors • Childcare Facilities • Elementary School Counselors • Preschool Teachers Educators for Parents • Nannies • Teachers' Assistants • Childcare Assistants/Workers
<b>Counseling &amp; Mental Health Services</b>	Industrial-Organizational Psychologists • Sociologists • School Counselors/Psychologists • Substance Abuse and Behavioral Disorder Counselors • Mental Health Counselors • Vocational Rehabilitation Counselors • Career Counselors • Employment Counselors • Residential Advisors • Marriage, Child and Family Counselors
<b>Family &amp; Community Services</b>	Community Service Directors • Adult Day Care Coordinators • Coordinators of Volunteers • Licensed Professional Counselors • Religious Leaders Directors, Religious Activities/Education Programs • Human Services Workers • Social Services Workers • Vocational Rehabilitation Counselors • Employment Counselors • Career Counselors • Vocational Rehabilitation Service Workers • Leisure Activities Coordinators • Dieticians • Geriatric Service Workers • Adult Day Care Workers • Residential Advisors • Emergency and Relief Workers • Community Food Service Workers • Community Housing Service Workers • Social and Human Services Assistants
<b>Personal Care Services</b>	Barbers • Cosmetologists, Hairdressers, & Hairstylists • Shampooers, Nail Technicians, Manicurists & Pedicurists • Skin Care Specialists/Estheticians • Electrolysis Technicians • Electrologists • Funeral Directors/Morticians • Embalmers • Funeral Attendants • Personal and Home Care Aides • Companions • Spa Attendants • Personal Trainers • Massage Therapists
<b>Consumer Services</b>	Consumer Credit Counselors • Consumer Affairs Officers • Consumer Advocates • Certified Financial Planners • Insurance Representatives • Bankers • Real Estate Services Representatives • Financial Advisors • Investment Brokers • Employee Benefits Representatives • Hospital Patient Accounts Representatives • Customer Service Representatives • Consumer Research Department Representatives • Consumer Goods or Services Retailing Representatives • Market Researchers • Account Executives • Sales Consultants • Event Specialists • Inside Sales Representatives • Field Merchandising Representatives • Buyers • Small Business Owners
<b>Cluster Knowledge and Skills</b>	
❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking ❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills	

## Career Cluster: Human Services

*Note: The courses in this section fall under this career cluster, but do not have a certification opportunity for students.*

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**COURSE NUMBER/TITLE:** 08253100/ **Library/AVC Aide** (LibraryAide)

**PREREQUISITE/GRADE:** None/ Grades 11, 12

**CREDIT**

**1**

*Can be taken twice for credit*

Gain experience in library science and/or media and audiovisual technology by working in the library or audiovisual center. You may work collecting, distributing, and categorizing materials; operating audiovisual equipment; assisting students and teachers; or fulfilling clerical duties.

**COURSE NUMBER/TITLE:** 05134154/05132151/ **Life Skills** (LifeSkills)

**PREREQUISITE/GRADE:** None/ Grades 9, 10, 11, 12

**CREDIT**

**1**

Become a wise consumer and a productive adult. Learn to set goals, make decisions, and prioritize; manage money and time; deal with relationships; and develop yourself. Explore among the following: practical exercises on housing selection and furnishing, meeting transportation needs, food preparation, clothing and wardrobe building, in addition to specific topics, such as insurance, taxation, and consumer protection.



**Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services**

Pathways	Sample Career Specialties/Occupations
<b>Network Systems</b>	<p><b>Network Design and Administration:</b>            Communications Analyst • Data Communications Analyst • Information Systems Administrator            Information Systems Operator • Information Technology Engineer  <b>Network:</b> Administrator • Analyst • Architect • Engineer • Manager • Operations Analysis            • Security Analyst • Specialist • Technician • Transport Administrator • PC Support Specialist •  <b>Systems:</b> Administrator • Engineer • Support Lead • Technical Support Specialist • User            Support Specialist</p>
<b>Information Support and Services</b>	<p><b>Database Development and Administration:</b>  <b>Data:</b> Administrator • Analyst • Architect • Management Associate • Modeler • Modeling            Specialist  <b>Database:</b> Administration Associate • Administrator • Analyst • Developer • Manager •            Modeler • Security Expert • DSS (Decision Support Services) • Knowledge Architect •            Senior Database Administrator • Systems Analyst  <b>Systems:</b> Administrator • Analyst • Tester  <b>Technical Writer:</b> Desktop Publisher • Document Specialist • Documentation Specialist •            Editor • Electronic Publications Specialist • Publisher • Instructional Designer • Online Pub-            lisher • Technical Communicator • Editor • Publications Manager • Writer  <b>Technical Support:</b> Analyst • Call Center Support Representative • Content Manager  <b>Customer:</b> Liaison • Service Representative • Service Professional  <b>Help Desk:</b> Specialist • Technician • Maintenance Technician • PC Support Specialist • PC            Systems Coordinator • Product Support Engineer • Sales Support Technician • Systems Ana-            lyst  <b>Technical:</b> Account Manager • Support Engineer • Support Representative • Testing Engi-            neer  <b>Enterprise Systems Analysis and Integration:</b> Application Integrator • Business Continuity            Analyst • Cross-Enterprise Integrator  <b>Data:</b> Systems Designer • Systems Manager • Warehouse Designer • E-Business Specialist •            Electronic Transactions Implementer  <b>Information Systems:</b> Architect • Planner</p>
<b>Interactive Media</b>	<p><b>Digital Media:</b> 2D/3D Artist • Animator • Audio/Video Engineer • Designer • Media Spe-            cialist • Media/Instructional Designer  <b>Multimedia:</b> Author • Authoring Specialist • Developer • Specialist • Producer • Production            Assistant • Programmer • Streaming Media Specialist • Virtual Reality Specialist  <b>Web:</b> Designer • Producer • Specialist  <b>Web Development and Administration:</b> <b>Web:</b> Administrator • Architect • Designer • Page            Developer • Producer • Site Developer • Specialist</p>
<b>Programming and Software Development</b>	<p><b>Applications:</b> Analyst • Engineer • Business Analyst • Computer Engineer • Data Modeler  <b>Operating System:</b> Designer/Engineer • Programmer Analyst • Program Manager • Pro-            grammer • Programmer/Analyst • Project Lead  <b>Software Applications:</b> Specialist • Architect • Design Engineer • Development Engineer •            Engineer • QA Specialist • Tester  <b>Systems:</b> Analyst • Administrator • Test Engineer • Tester</p>
<b>Cluster Knowledge and Skills</b>	
❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking ❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills	

**Career Cluster:** Information Technology

*Note: The courses in this section fall under this career cluster, but do not have a certification opportunity for students.*

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**COURSE NUMBER/TITLE:** 03024155/ **General Computer Applications** (GenCompAppl)

**PREREQUISITE/GRADE:** None/ Grades 9, 10, 11, 12

**CREDIT** 1

Learn the proper use of previously written software packages. Explore a wide range of applications, including (but not limited to) word processing, spreadsheet, graphics, and database programs, as well as (possibly) electronic mail and desktop publishing. Work on exercises and problems from any field, or define your own.



**Planning, managing, and providing scientific research and professional and technical services (e.g. physical science, social science, and engineering) including laboratory and testing services, and research and development service**

Pathways	Sample Career Specialties/Occupations
<p><b>Engineering and Technology</b></p>	<p>Aerospace Engineer • Aeronautical Engineer • Agricultural Engineer • Agricultural Technician • Application Engineer • Architectural Engineer • Automotive Engineer • Biomedical Engineer • Biotechnology Engineer • Chemical Engineer • Civil Engineer • Communications Engineer • Computer Engineer • Computer Hardware Engineer • Computer Programmer • Computer Science Technician • Computer Software Engineer • Construction Engineer • Consultant • Development Engineer • Drafter • Electrical Engineer • Electrician • Electronics Technician • Energy Transmission Engineer • Environmental Engineer • Facilities Technician • Fire Protection Engineer • Geothermal Engineer • Hazardous Waste Engineer • Hazardous Waste Technician • Human Factors Engineer • Industrial Engineer • Industrial Engineering Technician • Licensing Engineer • Manufacturing Engineer • Manufacturing Technician • Manufacturing Processes Engineer • Marine Engineer • Materials Engineer • Materials Lab &amp; Supply Technician • Mechanical Engineer • Metallurgic Engineer • Mining Engineer • Naval Engineer • Network Technician • Nuclear Engineer • Ocean Engineer • Operations Research Engineer • Packaging Engineer • Packaging Technician • Petroleum Engineer • Pharmaceutical Engineer • Plastics Engineer • Power Systems Engineer • Product Design Engineer • Project Engineer • Project manager • Prototype Engineer • Quality Engineer • Quality Technician • Radio/TV Broadcast Technician • Radiology Engineer • Researcher • Safety Engineer • Software Engineer • Sound Technician • Structural Engineer • Survey Technician • Systems Design Engineer • Technical Sales Manager • Technical Writer • Telecommunications Engineer • Textile Engineer • Transportation Engineer</p>
<p><b>Science and Math</b></p>	<p>Analytical Chemist • Anthropologist • Applied mathematician • Archeologist • Astronomer • Astrophysicist • Atmospheric scientist • Biologist • Botanist • CAD operator • Cartographer • Chemist • Communications technologist • Conservation scientist • Cosmologist • Cryptographer • Crystallographer • Demographer • Dye chemist • Ecologist • Economist • Electron-microscopist • Environmental scientist • Expert systems scientist • Geneticist • Geologist • Geophysicist • Geoscientist • Herpetologist • Hydrologist • Ichthyologist • Inorganic chemist • Laboratory Technician • Mammalogist • Marine scientist • Materials analyst • Materials scientist • Mathematician • Mathematics • Metallurgist • Meteorologist • Microbial Physiologist • Mycologist • Nanobiologist • Nuclear chemists • Nuclear technician • Numerical analyst • Nutritionist • Oceanographer • Organic chemist • Ornithologist • Paleontologist • Physicist • Polymer scientist • Programmer • Protein scientist • Protozoologist • Quality-control scientist • Radio chemist • Research chemist • Research Technician • Science Teacher • Lab Technician • Scientific visualization / graphics expert • Spectroscopist • Statistician • Technical writer • Technologist • Toxicologist • Zoologist</p>
<p><b>Cluster Knowledge and Skills</b></p>	
<p style="text-align: center;">❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking ❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills</p>	

## Career Cluster: Science, Technology, Engineering & Mathematics

*Note: The courses in this section fall under this career cluster, but do not have a certification opportunity for students. Additional courses that relate to this cluster can be found on pages 11-15 of this book.*

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**COURSE NUMBER/TITLE:** 16254125/ *Technology Systems (PREP)*

**PREREQUISITE/GRADES:** NMSU selected

**CREDIT:** 1 *Can be taken four times for credit*

Explore the resources, processes, management, and products as they relate to communication, energy, and production technology. Learn practical application, impact of technology and teamwork.

# **Future Pathways to be Discovered**



## **Career Cluster Charts for:**

**Agriculture and Renewable Natural Resources**

**Finance**

**Government & Public Administration**

**Law, Public Safety, Corrections & Security**

**Marketing, Sales & Service**


	<p><b>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</b></p>
Pathways	Sample Career Specialties/Occupations
<b>Food Products and Processing Systems</b>	Agricultural Sales • Agricultural Communications Specialists • Business-Educators • Food Scientists • Meat Processors-Toxicologists • Biochemists-Nutritionists-Dieticians • Food Brokers-Food Inspectors • Meat Cutters-Meat Graders • Meat Science Researchers • Food Meal Supervisors • Cheese Makers • Microbiologists • Produce Buyers • Bacteriologists • Food & Drug Inspectors • Bioengineers • Biochemists • Food & Fiber Engineers • Food Processors • Storage Supervisors • Fieldman • Quality Control Specialists
<b>Plant Systems</b>	Bioinformatics Specialists • Plant Breeders and Geneticists • Biotechnology Lab Technician • Soil & Water Specialists • Crop Farm Managers • Agricultural Educators • Plant Pathologists • Aquaculturalists • Sales Representatives • Botanists • Tree Surgeons • Education & Extension Specialists • Agricultural Journalists • Commodity Marketing Specialists • Grain Operations Superintendents • Custom Hay/Silage Operators • Forest Geneticists • Golf Course Superintendents • Greenhouse Mangers • Growers • Farmers • Ranchers
<b>Animal Systems</b>	Agricultural Educators • Livestock producers • AI Technicians-Aquaculturalists • Animal Caretakers-Poultry Managers • Equine Managers-Veterinarians • Veterinary Assistants-Feedlot Specialists • Animal Scientists • Embryo Technologists • Livestock Buyers • Feed Sales Representatives • Vivarian Technicians • Wildlife Biologists • Livestock Geneticists • Animal Nutritionists • Dairy Producers • Livestock Inspectors • Feed Sales Specialists • Animal Health Salespersons • Meat Science Researcher • Reproductive Physiologists • Embryo Transfer Technicians • Pet Shop Operators • USDA Inspectors
<b>Power, Structural &amp; Technical Systems</b>	Machine Operators • Electronics Systems Technicians • Agricultural Engineers • Agricultural Extension Engineering Specialists • Heavy Equipment Maintenance Technicians • Recycling Technicians • Waste Water Treatment Plant Operators • Equipment/Parts Mangers • Welders • Machinists • Communication Technicians • Agricultural Applications Software Developers/Programmers • Database Administrators • Computer Service Technical Support Technicians • Information Lab Specialists • GPS Technicians • Remote Sensing Specialists
<b>Natural Resources Systems</b>	Cartographers • Wildlife Managers • Range Technicians • Ecologists Park Mangers • Environmental Interpreters • Fish and Game Officers Loggers • Forest Technicians • Log Graders • Pulp and Paper Manager Soil Geology Technician • Geologists • Mining Engineers Fisheries Technicians • Water Monitoring Technician • Hydrologists • Fish Hatchery Manager Commercial Fishermen • Fishing Vessel Operators • Vessel Crew
<b>Environmental Service Systems</b>	Pollution Prevention and Control Managers • Pollution Prevention and Control Technicians • Environmental Sampling and Analysis Scientists/Technicians • Health and Safety Sanitarians • Environmental Compliance Assurance Managers • Hazardous Materials Handlers • Hazardous Materials Technicians / Managers • Water Environment Managers • Water Quality Managers • Waste Water Managers • Toxicologists • Solid Waste Disposers / Recyclers • Solid Waste Technician • Solid Waste Managers • Solid Waste Specialists
<b>Agribusiness Systems</b>	Salesperson • Sales Manager • Banker/Loan Officer • Field Representative for Bank, Insurance Company or Government Program • Farm Investment Manager • Agricultural Commodity Broker • Agricultural Economist • Farmer /Rancher/Feedlot Operator • Farm Manager • Livestock Rancher / Breeder • Dairy Herd Supervisor (DHIA) • Agricultural Products Buyer • Animal Health Products Distributor • Livestock Seller • Feed and Supply Store Manager • Produce Commission Agent • Ag Lenders • Agricultural Chemical Dealer • Field Service Representative • Chemical Sales Representative
<b>Cluster Knowledge and Skills</b>	
❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking ❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills	





**Planning, services for financial and investment planning, banking, insurance, and business financial management.**

<b>Pathways</b>	<b>Sample Career Specialties/Occupations</b>
<b>Financial &amp; Investment Planning</b>	Personal Financial Advisor • Tax Preparation • Sales Agents, Securities, Commodities Investment Advisors • Brokerage Clerk (Assistant) • Development Officers
<b>Business Financial Management</b>	Accountants • Financial Analysts • Treasurers, Controllers and Chief Revenue Agents • Auditor • Economists • Tax Examiners • Collectors • Revenue Agents
<b>Banking &amp; Related Services</b>	Credit Analyst • Loan Officers • Bill and Account Collectors • Tellers • Loan Processors • Customer Service Reps • Data Processors • Accounting • Internal Auditors • Compliance Officers • Title Researchers & Examiners • Abstractors • Credit Report Providers • Repossession Agents • Network Services • Operations Managers • Debt Counselors
<b>Insurance Services</b>	Claims Agents, Examiners, and Investigators • Claims Clerks • Insurance Appraisers • Underwriters • Actuaries • Sales Agents • Customer Service Agents • Processing Clerks • Direct Marketing
<b>Cluster Knowledge and Skills</b>	
❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking ❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills	

	<b>Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.</b>
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Pathways	Sample Career Specialties/Occupations
<b>Governance</b>	President • Vice President • Governor • Lieutenant Governor • Mayor • Cabinet Level Secretary (Fed./ State) • Representative (Fed/State) • Senator (Fed/State) • Assistants, Deputies, and Chiefs of Staff • Commissioner (County, Parish, City) • Commissioner (State Agency) • Congressional Aide • Legislative Aide • Legislative Assistant • Specialist • Lobbyist
<b>National Security</b>	National Security Advisor • Staff or Field Officer • Officer/Specialist • Electronic Warfare • Operations • Combat Operations • Infantry Field Artillery • Air Defense Artillery • Special Forces • Armor • Munitions • Nuclear Weapons • Missile and Space Systems • Military Intelligence • Signals Intelligence • Surface Ship Warfare Officer • Submarine Officer • Combat Control Officer • Combat Engineer • Combat Aircraft Pilot/Crew • Airborne Warning/Control Specialist • Intelligence/Counterintelligence • Agent/Specialist • Intelligence Analyst
<b>Foreign Service</b>	Ambassador • Foreign Service Officer • Consular Officer • Administrative Officer • Political Officer • Economic Officer • Diplomatic Courier
<b>Planning</b>	Business/Enterprise Official • Chief of Vital Statistics • Commissioner • Director (Various Agencies) • Economic Development Coordinator • Federal Aid Coordinator • Census Clerk • County Director • Census Enumerator • Planner • Program Associate
<b>Revenue and Taxation</b>	Assessor • Tax Auditor • Internal Revenue Investigator • Revenue Agent/Officer • Tax Examiner/Assistant/Clerk • Inspector General • Tax Attorney • Tax Policy Analyst
<b>Regulation</b>	Business Regulation Investigator • Chief of Field Operations • Code Inspector/Officer • Director • Equal-Opportunity Officer • Inspector Investigator/Examiner • Chief Bank Examiner • Bank Examiner • Aviation Safety Officer • Border Inspector • Cargo Inspector • Election Supervisor • Enforcement Specialist • Immigration Officer
<b>Public Management and Administration</b>	City Manager • City Council • City or County Clerk • Court Administrator or Clerk • Executive Director/ • Officer/Associate • Foundation • Association • Charitable Organization • Industrial Foundation • Chamber of Commerce • General Service Officer • Management Analysis Officer • Program Administration Officer
<b>Cluster Knowledge and Skills</b>	
❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking ❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills	



**Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services**

Pathways	Sample Career Specialties/Occupations
<b>Correction Services</b>	Warden· Jail Administrator· Mid-level Manager • Program Coordinator and Counselor· Public Information Officer • Correctional Trainer • Case Manager· Community Corrections Practitioner • Probation/ parole officer • Corrections Educator • Corrections Officer • Detention Deputy • Youth Services Worker • Facility Maintenance Workers • Transport Officer • Food Service Staff· Medical Staff • Dietitian· Support Staff
<b>Emergency and Fire Management Services</b>	Emergency Management and Response Coordinator • Emergency Planning Manager • EMT • Fire Fighter • Mgr/Supv. Of Fire Fighters • Forest Fire Fighter • Mgr/Supv. of Forest Fire Fighters • Forest Fire Inspector & Investigator • Hazardous Materials Responder • Dispatcher • Training Officer, Grant Writer and Coordinator • Rescue Workers
<b>Security &amp; Protective Services</b>	Security Director • Corporate/Agency Security Director/VP • Corporate Director of Sales • Security Systems Designer/Consultant • Physical Security Specialist Consultant • Information Systems Security Specialist • Computer Forensics Specialist • Private/Corporate Investigator • Loss Prevention/Security Manager (e.g. Store, hotel) • Security Trainer/Educator • Security Sales Representative/Manager • Loss Prevention Specialist • Physical Security Assistant • Security Systems Technician (Install/maintain) • Investigative Assistant (private sector) • Security Trainer (Basics) • Security Sales Assistant • Transportation Security Supervisor • Information Security Assistant (Document Control) • Personnel Security Assistant • Executive Protection Officer (Private) • Supervisory Security officer (armed, unarmed) • Certified Security Officer (SPO, POST, Arrest Authority) • Armored Car Guard • Control Center Operator (e.g. ADT) (Monitoring Center) • Uniformed Security Officer (Unarmed -- proprietary and contract) • Security Clerk • Transportation Security Technician • Loss Prevention Assistant • Uniformed Security officer (armed) • Computer Security Specialist • Computer Forensics Examiner • Executive Protection Specialist • Gaming Surveillance Specialist • Information Security specialist • Information Technology Security • Armored Car Guards • Industrial Espionage Security • Life Guard, Ski Patrol • Physical Property Security • Private Security Specialist
<b>Law Enforcement Services</b>	Animal Control Officer • Bailiffs • Child Support • Missing Persons • Unemployment Fraud Investigators • Criminal Investigators & Special Agents • Gaming Investigator • Bomb Technician • Game Enforcement Officer • Highway Patrol Pilots • Immigration & Customs Inspectors • Mgr/Supv. Police & Detectives • Police Detectives and Criminal Investigators • Police, Fire & Ambulance Dispatchers • Police & Patrol Officers • Private Detectives & Investigators • Sheriffs & Deputy Sheriffs • Training Officer • Transit & Railroad Police • Park Ranger • Evidence Technician • Federal Marshall
<b>Legal Services</b>	Administrative Law • Attorney • Case Management Specialist • Court Reporter • File and Document Manager • Information Officer • Investigator • Judge • Law Clerk • Legal Assistant • Legal Secretary • Magistrate Mediator/Arbitrator • Negotiator • Para legal



**Planning, managing, and performing marketing activities to reach organizational objectives.**

Pathways	Sample Career Specialties/Occupations
<b>Management and Entrepreneurship</b>	Entrepreneurs • Owners • Small Business Owners • Presidents • Chief Executive Officers • Principals • Partners • Proprietors • Franchisees • Independent X's (e.g., distributor) • Customer Service Representatives
<b>Professional Sales and Marketing</b>	Inbound Call Managers • Channel Sales Managers • Regional Sales Managers • Client Relationship Managers • Business Development Managers • Territory Representatives / Managers • Key Account Managers • National Account Managers • Account Executives • Sales Engineers • Sales Executives • Technical Sales Specialists • Retail Sales Specialists (big ticket) • Outside Sales Representatives • Industrial Sales Representatives • Manufacturer's Representatives • Salespersons • Field Marketing Representatives • Brokers • Agents • Field Representatives • Solutions Advisors • Sales/ Marketing Associates • Telemarketers • Customer Service Representatives
<b>Buying and Merchandising</b>	Store Managers • Retail Marketing Coordinators • Merchandising Managers • Merchandise Buyers • Operations Managers • Visual Merchandise Managers • Sales Managers • Department Managers • Sales Associates • Customer Service Representatives • Representatives Clerks (e.g., stock, receiving, etc.)
<b>Marketing Communications and Promotion</b>	Advertising Managers • Public Relations Managers • Public Information Directors • Sales Promotion Managers • Co-op Managers • Trade Show Managers • Circulation Managers • Promotions Managers • Art/Graphics Directors • Creative Directors • Account Executives • Account Supervisors • Sales Representatives • Marketing Associates • Media Buyers/ Planners • Interactive Media Specialists • Analysts • Contract Administrators •
<b>Marketing Information Management and Research</b>	Database Managers • Research Specialists / Managers • Brand Managers • Marketing Services Managers • Customer Satisfaction Managers • (Research) Project Managers • CRM Managers • Forecasting Managers • Strategic Planners, Marketing Product Planners • Planning Analysts • Directors of Market Development • Database Analysts • Research Associates • Frequency Marketing Specialists • Knowledge Management Specialists • Interviewers • Customer Service Representatives •
<b>Distribution and Logistics</b>	Warehouse Managers • Materials Managers • Traffic Managers • Logistics Managers • Transportation Managers • Inventory Managers/Analysts • Logistics Analysts/ Engineers • Distribution Coordinators • Shipping/Receiving Administrators • Shipping / Receiving Clerks • Customer Service Representatives •
<b>E-Marketing</b>	Fulfillment Managers • E-Merchandising Managers • E-Commerce Directors • Web Site Project Managers • Internet Project Directors • Brand Managers • Forum Managers • Web Masters • Web Designers • Interactive Media Specialists • Internet Sales Engineers • Site Architects • User Interface Designers • On-line Market Researchers • Copywriters-Designers • Account Supervisors • Customer Support Specialists • Customer Service Representatives •
<b>Cluster Knowledge and Skills</b>	
<ul style="list-style-type: none"> <li>❖ Academic Foundations ❖ Communications ❖ Problem Solving and Critical Thinking</li> <li>❖ Information Technology Applications ❖ Systems ❖ Safety, Health and Environmental ❖ Leadership and Teamwork ❖ Ethics and Legal Responsibilities ❖ Employability and Career Development ❖ Technical Skills</li> </ul>	

States' Career Clusters Initiative, 2006, [www.careerclusters.org](http://www.careerclusters.org)

## Elective Courses—Athletics

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**COURSE NUMBER/TITLE:** 30033100/ **Girls Volleyball** (Girls V-Ball)  
**PREREQUISITE/GRADE:** Coaches Approval/ Grades 10, 11, 12  
**CREDIT** 1 *Can be taken four times for credit*  
Gain and develop skills in volleyball.

**COURSE NUMBER/TITLE:** 30053100/ **Girls Soccer** (Girls Soccer)  
**PREREQUISITE/GRADE:** Coaches Approval/ Grades 9, 10, 11, 12  
**CREDIT** 1 *Can be taken four times for credit*  
Gain and develop skills in soccer.

**COURSE NUMBER/TITLE:** 30054100/ **Boys Soccer** (Boys Soccer)  
**PREREQUISITE/GRADE:** Coaches Approval/ Grades 9, 10, 11, 12  
**CREDIT** 1 *Can be taken four times for credit*  
Gain and develop skills in soccer.

**COURSE NUMBER/TITLE:** 30044100/ **Boys Basketball** (Boys Basketball)  
**PREREQUISITE/GRADE:** Coaches Approval/ Grades 10, 11, 12  
**CREDIT** 1 *Can be taken four times for credit*  
Gain and develop skills in basketball.

**COURSE NUMBER/TITLE:** 30043100/ **Girls Basketball** (Girls Basketball)  
**PREREQUISITE/GRADE:** Coaches Approval/ Grades 10, 11, 12  
**CREDIT** 1 *Can be taken four times for credit*  
Gain and develop skills in basketball.

**COURSE NUMBER/TITLE:** 30123100/ **Softball** (Softball)  
**PREREQUISITE/GRADE:** Coaches Approval/ Grades 10, 11, 12  
**CREDIT** 1 *Can be taken four times for credit*  
Gain and develop skills in softball.

**COURSE NUMBER/TITLE:** 30103100/ **Baseball** (Baseball)  
**PREREQUISITE/GRADE:** Coaches Approval/ Grades 10, 11, 12  
**CREDIT** 1 *Can be taken four times for credit*  
Gain and develop skills in baseball.

**COURSE NUMBER/TITLE:** 30013100/ **Football** (Football)  
**PREREQUISITE/GRADE:** Coaches Approval/ Grades 10, 11, 12  
**CREDIT** 1 *Can be taken four times for credit*  
Gain and develop skills in football

**COURSE NUMBER/TITLE:** 30163100/ **Weight Training—Athlete** (WghtTrnAthl)  
**PREREQUISITE/GRADE:** Enrollment in a Major Sports Class/ Grades 9, 10, 11, 12  
**CREDIT** 1 *Can be taken four times for credit*  
Gain and develop skills with free-weights and weight machines for athletes enrolled in a major sports class.  
[Students enrolled in this course **may not** enroll in course #23224100.]

**COURSE NUMBER/TITLE:** 30254000/ **Athletic Training** (AthleTrainer)  
**PREREQUISITE/GRADE:** Instructor's Approval/ Grades 9, 10, 11, 12  
**CREDIT** 1 *Can be taken four times for credit*  
Gain and develop skills in the techniques of athletic training, including injury prevention, first aid, and physical rehabilitation methods. Utilize skills to provide care for members of school's athletic teams. Course requires after-school and weekend commitment.

**COURSE NUMBER/TITLE:** 30203100/ **Fitness Conditioning Activities—Athlete** (Fit/CondAthl)  
**PREREQUISITE/GRADE:** Enrollment in a Major Sports Class/ Grades 9, 10, 11, 12  
**CREDIT** 1 *Can be taken four times for credit*  
Gain and develop skills in physical fitness; for athletes enrolled in a major sports class.

## Elective Courses - Physical Education

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**COURSE NUMBER/TITLE:** 23054220/ *Physical Education 2 (PhysicalEd2)*

**PREREQUISITE/GRADES:** Phys. Ed. 1/ Grades 10, 11, 12

**CREDIT:** 1

Develop physical skills through individual, dual, and team activities.

**COURSE NUMBER/TITLE:** 23223220/ *Weight Training 1 (WeightTrain1)*

**PREREQUISITE/GRADES:** Physical Education 1/ Grades 10, 11, 12

**CREDIT:** 1

*Can be taken four times for credit*

Develop endurance and strength using various weight-training methods.

**COURSE NUMBER/TITLE:** 23224220/ *Weight Training 2 (WeightTrain2)*

**PREREQUISITE/GRADES:** Weight Train 1/ Grades 10, 11, 12

**CREDIT:** 1

*Can be taken four times for credit*

Want to build muscle? Develop endurance and strength using various weight-training methods.

## Elective Courses

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**COURSE NUMBER/TITLE:** 08214000/ *Student Aide (StudentAide)*

**PREREQUISITE/GRADE:** 2.0 GPA and Office Approval/ Grades 12

**CREDIT** 1

Have the opportunity to work in one of several campus offices (front, attendance, guidance, athletic offices, in the library or audio-visual center, or with individual teachers), assisting the appropriate professionals with their duties.

**COURSE NUMBER/TITLE:** 08174100/ *Drivers Education-Classroom Only (DriversEd)*

**PREREQUISITE/GRADE:** Social Security Card/ Grades 9, 10, 11, 12

**CREDIT** 1

Become a safe driver on America's roadways by learning legal obligations and responsibility, rules of the road and traffic procedures, safe driving strategies and practices, and the physical and mental factors affecting the driver's capability (including alcohol and other drugs).

**COURSE NUMBER/TITLE:** 10203900/ *Reading Intervention (ReadIntervene)*

**PREREQUISITE/GRADE:** None/ Grades 9-12

**CREDIT** 1

Improve your ability to read and comprehend material for all your classes.

**COURSE NUMBER/TITLE:** 10094911/ *Read 180 (Read180)*

**PREREQUISITE/GRADE:** None/ Grades 9-12

**CREDIT** 1

Improve your ability to read and comprehend material for all your classes.

## Student Resource Courses - (Open via a student's I.E.P.)

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10092851 / **Language Arts Skills 1** (LASkills1)  
 10092051 / **Language Arts Skills 2** (LASkills2)

**COURSE NUMBER/TITLE:** 10092951 / **Language Arts Skills 3** (LASkills3)  
 10092000 / **Language Arts Skills 4** (LASkills4)  
 10092001 / **Language Arts Skills 5** (LASkills5)

PREREQUISITE/GRADES: None  
 CREDIT: **1**

Study basic language skills, integrating reading, and writing, speaking and listening. Other topics are dependent on individual abilities.

20112851 / **Math Skills 1** (MathSkills1)  
 20112051 / **Math Skills 2** (MathSkills2)

**COURSE NUMBER/TITLE:** 20112951 / **Math Skills 3** (MathSkills3)  
 20112000 / **Math Skills 4** (MathSkills4)  
 20112001 / **Math Skills 5** (MathSkills5)

PREREQUISITE/GRADES: None  
 CREDIT: **1**

Study general math topics, such as arithmetic using rational numbers, numeration systems and place value, basic geometry, and basic statistics, and apply these skills to real world problems and situations.

10092100 / **Life Skills Language Arts 1** (LfeLASkills1)  
 10092110 / **Life Skills Language Arts 2** (LfeLASkills2)

**COURSE NUMBER/TITLE:** 10092111 / **Life Skills Language Arts 3** (LfeLASkills3)  
 10092120 / **Life Skills Language Arts 4** (LfeLASkills4)  
 10092121 / **Life Skills Language Arts 5** (LfeLASkills5)

PREREQUISITE/GRADES: None  
 CREDIT: **1**

Study basic language skills, integrating reading, and writing, speaking and listening. Other topics are dependent on individual abilities.

20112101 / **Life Skills Math 1** (LfeMASkills1)  
 20112110 / **Life Skills Math 2** (LfeMASkills2)

**COURSE NUMBER/TITLE:** 20112011 / **Life Skills Math 3** (LfeMASkills3)  
 20112010 / **Life Skills Math 4** (LfeMASkills4)  
 20112810 / **Life Skills Math 5** (LfeMASkills5)

PREREQUISITE/GRADES: None  
 CREDIT: **1**

Study general math topics, such as arithmetic using rational numbers, numeration systems and place value, basic geometry, and basic statistics, and apply these skills to real world problems and situations.

## Student Resource Courses - (Open via a student's I.E.P.)

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**COURSE NUMBER/TITLE:** 23162110/ *Adaptive Physical Education (AdaptivePE)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1  
 Participate in physical activities adapted to meet your specific physical fitness needs. Meets high school graduation requirement

**COURSE NUMBER/TITLE:** 27392100/ *Community Social Studies 1 (CommSocStudy1)*  
 27292100/ *Community Social Studies 2 (CommSocStudy2)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1  
 Study basic community social studies, including history, geography, government and economics. Other topics are dependent on individual abilities.

**COURSE NUMBER/TITLE:** 17002100/ *Science Skills 1 (SciSkills1)*  
 17002102/ *Science Skills 2 (SciSkills2)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1  
 Study basic science topics, including biology, anatomy and physiology, earth and physical science. Other topics are dependent on individual abilities.

**COURSE NUMBER/TITLE:** 28032000/ *Community Living 1 (CommLiving1)*  
 28032001/ *Community Living 2 (CommLiving2)*  
 28032004/ *Community Living 3 (CommLiving3)*  
 28032005/ *Community Living 4 (CommLiving4)*  
 28032002/ *Community Living 5 (CommLiving5)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1  
 Special emphasis is put on the student's relationship to the surrounding community.

**COURSE NUMBER/TITLE:** 28052000/ *Communication Instruction 1 (CommInstruct1)*  
 28052001/ *Communication Instruction 2 (CommInstruct2)*  
 28052004/ *Communication Instruction 3 (CommInstruct3)*  
 28052005/ *Communication Instruction 4 (CommInstruct4)*  
 28052002/ *Communication Instruction 5 (CommInstruct5)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1  
 Special emphasis is put on increasing student communication skills.

**COURSE NUMBER/TITLE:** 28062000/ *Social Development Instruction 1 (SocialDevelop1)*  
 28062001/ *Social Development Instruction 2 (SocialDevelop2)*  
 28062004/ *Social Development Instruction 3 (SocialDevelop3)*  
 28062005/ *Social Development Instruction 4 (SocialDevelop4)*  
 28062002/ *Social Development Instruction 5 (SocialDevelop5)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1  
 Special emphasis is put on increasing student social development skills.

**COURSE NUMBER/TITLE:** 28042000/ *Mobility Instruction 1 (Mobility1)*  
 28042001/ *Mobility Instruction 2 (Mobility2)*  
 28042004/ *Mobility Instruction 3 (Mobility3)*  
 28042005/ *Mobility Instruction 4 (Mobility4)*  
 28042002/ *Mobility Instruction 5 (Mobility5)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1  
 Special emphasis is put on increasing student abilities to move about and communicate within their surrounding communities.



## Student Resource Courses - (Open via a student's I.E.P.)

**COURSE NUMBER/TITLE:** 16032153/ *Career Exploration 1 (Careers 1) (CareerExp1)*

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

Identify your personal goals, priorities, aptitudes, and interests and match them with your career interests. Identify future career possibilities by researching careers and training options of interest.

28082000/ *Work Study JTP 1 (WorkJTP1)*

28082001/ *Work Study JTP 2 (WorkJTP2)*

**COURSE NUMBER/TITLE:** 28082004/ *Work Study JTP 3 (WorkJTP3)*

28082005/ *Work Study JTP 4 (WorkJTP4)*

28082002/ *Work Study JTP 5 (WorkJTP5)*

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

16062000/ *Work Study Campus 1 (WorkCampus1)*

16062140/ *Work Study Campus 2 (WorkCampus2)*

**COURSE NUMBER/TITLE:** 16062040/ *Work Study Campus 3 (WorkCampus3)*

16062100/ *Work Study Campus 4 (WorkCampus4)*

16062110/ *Work Study Campus 5 (WorkCampus5)*

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

16062030/ *Work Experience 1 (WorkExp1)*

16062033/ *Work Experience 2 (WorkExp2)*

**COURSE NUMBER/TITLE:** 16062043/ *Work Experience 3 (WorkExp3)*

16062133/ *Work Experience 4 (WorkExp4)*

16062143/ *Work Experience 5 (WorkExp5)*

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

**COURSE NUMBER/TITLE:** 08626000/ *Seminar (Gifted Elective) (Seminar)*

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

Work with your peers to investigate areas of interest. Group objectives may include improvement of research and investigatory skills, presentation skills, interpersonal skills; group process skills, and problem solving and critical thinking skills. Seminars aimed at juniors and seniors often include a college and career exploration and planning component.

## Center for Career and Technology Education Courses

**Important Note:** *This information is for Special Education students who attend the Center for Career and Technology Education (CCTE) in El Paso, Texas. Students who are NOT SPED students are NOT to be enrolled in these courses under any circumstances.*

Based on the Individualized Plan of Education (I.E.P.), some students attend the **Center for Career and Technology Education (CCTE)** in El Paso, Texas. The following matrix translates the CCTE's courses and programs to the New Mexico ADS course numbers. The intent of this matrix is to insure that students receive appropriate credits for courses they attend at CCTE and that their transcript clearly identifies the courses/programs they were enrolled in. The italicized abbreviations under the ADS course title are what will appear on the student transcript.

CCTE Course Title	ADS Course	ADS Course Title	Maximum #
Medical Office	15147252	Medical Office ( <i>MedOffice</i> )	4

**Student Resource Courses - (Open via a student's I.E.P.)**

<b>CCTE Course Title</b>	<b>ADS Course</b>	<b>ADS Course Title</b>	<b>Maximum #</b>
<b>Health Science Technology</b>	15037252	Allied Health Occupations 1 ( <i>AlliedHealt1</i> )	4
	15037232	Allied Health Occupations 2 ( <i>AlliedHealt2</i> )	4
<b>Legal Office Man-</b>	25042150	Public Administration ( <i>PublicAdmin</i> )	4
<b>Law Enforcement</b>	25132150	Criminal Justice Assisting ( <i>CriminalJust</i> )	4
<b>Auto Collision Repair</b>	09422152	Automotive Body Repair and Refinishing 1	4
	09422150	Automotive Body Repair and Refinishing 2 ( <i>AutoBody2</i> )	4
<b>Automotive Technology</b>	09127250	Automotive Technology—Comprehensive 1 ( <i>AutoTechCom1</i> )	4
	09127230	Automotive Technology—Comprehensive 2	4
<b>Diesel Technology</b>	09157250	Diesel Mechanics--General 1 ( <i>DieselMech1</i> )	4
	09157230	Diesel Mechanics--General 2 ( <i>DieselMech2</i> )	4
<b>Fashion Design</b>	05112151	Fashion Design 1 ( <i>Fashion1</i> )	4
	05112150	Fashion Design 2 ( <i>Fashion2</i> )	4
<b>Advertising Design</b>	13232151	Commercial Art 1 ( <i>CommArt1</i> )	4
	13232150	Commercial Art 2 ( <i>CommArt2</i> )	4
<b>Cosmetology</b>	06032150	Cosmetology 1 ( <i>Cosmetology1</i> )	4
	06032130	Cosmetology 2 ( <i>Cosmetology2</i> )	4
<b>Nail Technician</b>	06062150	Cosmetology--Nail Technician 1 ( <i>NailTech1</i> )	4
	06062130	Cosmetology--Nail Technician 2 ( <i>NailTech2</i> )	4
<b>Culinary Arts</b>	05087250	Culinary Arts 1 ( <i>CulinaryArt1</i> )	4
	05087232	Culinary Arts 1 ( <i>CulinaryArt2</i> )	4
<b>Hotel Restaurant Travel Management</b>	05287250	Hospitality, Tourism, and Recreation 1 ( <i>Hospitality1</i> )	4
	05287230	Hospitality, Tourism, and Recreation 2 ( <i>Hospitality2</i> )	4
<b>Microcomputer Technician</b>	03177250	Computer Technology ( <i>ComputerTech</i> )	4
<b>Web Page Design &amp; Animation</b>	03157230	Computer Graphics ( <i>ComGraphics</i> )	4
<b>Telenetworking</b>	03187250	Network Technology ( <i>NetworkTech</i> )	4
<b>Telecommunications I (I-Net)</b>	02767230	Web Page Design ( <i>WebPagDesign</i> )	4
<b>Electrical Technology</b>	04422152	Electricity--Comprehensive 1 ( <i>ElectricCom1</i> )	4
	04422132	Electricity--Comprehensive 2 ( <i>ElectricCom2</i> )	4

**Student Resource Courses - (Open via a student's I.E.P.)**

<b>CCTE Course Title</b>	<b>ADS Course Number</b>	<b>ADS Course Title</b>	<b>Maximum # of Credits</b>
<b>Engineering and Architectural Drafting</b>	07072151	CAD Design and Software 1 ( <i>CADDesign1</i> )	4
	07072150	CAD Design and Software 2 ( <i>CADDesign2</i> )	4
<b>Electronics Technology</b>	04527252	Electronics--General 1 ( <i>Electronics1</i> )	4
	04527232	Electronics--General 2 ( <i>Electronics2</i> )	4
<b>Machining Technology</b>	24027252	Machining 1 ( <i>Machining1</i> )	4
	24027232	Machining 2 ( <i>Machining2</i> )	4
<b>Robotics &amp; Automation</b>	16242152	Manufacturing Systems 1 ( <i>ManufacSys1</i> )	4
	16242150	Manufacturing Systems 2 ( <i>ManufacSys2</i> )	4
<b>CTED Piping Trades/Plumbing</b>	04382151	Plumbing 1 ( <i>Plumbing1</i> )	4
	04382150	Plumbing 2 ( <i>Plumbing2</i> )	4
<b>CTED Carpentry Technology</b>	04162151	Particular Topics in Carpentry 1 ( <i>PTCarpentry1</i> )	4
	04162150	Particular Topics in Carpentry 2 ( <i>PTCarpentry2</i> )	4
<b>CTED Major Appliance Technology</b>	16332150	Appliance Repair ( <i>ApplianceRep</i> )	4
<b>CTED Food Production</b>	05122152	Advanced Foods ( <i>AdvFoods</i> )	4
<b>CTED Marketing Dynamics</b>	18022150	Principles of Marketing ( <i>Marketing</i> )	4
<b>CTED Computer Exploration</b>	16952150	Technology Education—Related Subjects ( <i>TechEdRelSub</i> )	4
<b>CTED Building Maintenance I</b>	04732150	Building Maintenance I ( <i>BuildMaint1</i> )	4
	04422132	Electricity--Comprehensive 2 ( <i>ElectricCom2</i> )	4

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