

Career Clusters and Pathways:
Gadsden High School
2009-2010

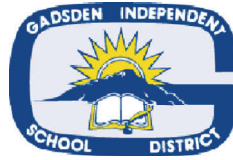


Students of Gadsden High School:
Discover Your Future!

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



2008-09 Gadsden High School Pre-Registration Handbook Table of Contents

Superintendent's Letter	2
Planning Your Future: Career Pathways	4
Chart: Sixteen Career Clusters	6
9th Grade Courses Required For Graduation	8
10th Grade Courses Required for Graduation	10
11th Grade Courses Required For Graduation	12
12th Grade Courses Required for Graduation & Recommended Courses	14
Program for the Acquisition of Language (PAL)	17
Gadsden High School Pathways - National Certificate Programs	18
Business Management & Administration (Microsoft Office Suite Certificate)	20
Education & Training (ParaPro Certificate)	22
Health Science (Certified Nursing Assistant)	24
Hospitality & Tourism (ParaPro Certificate)	27
Law, Public Safety, Corrections & Security (NOCTI Criminal Justice Certification)	29
Manufacturing (WIN Certificate)	31
Marketing, Sales & Service (A*S*K Certificate)	33
Transportation, Distribution & Logistics (Automotive Service Excellence Certificates)	35
Design Your Own Pathway - Non-Certificate Elective Courses	38
Agriculture, Food & Natural Resources	39
Architecture & Construction (Currently - GHS has no supporting courses for this cluster)	42
Arts, Audio Visual Technologies & Communication	43
Finance	47
Government & Public Administration	49
Human Services	51
Information Technology	53
Science, Technology, Engineering & Mathematics	55
Elective Courses	
Athletics	57
Physical Education	58
General Electives	58
Student Resource Courses (Open via I.E.P.)	60
Course Index	65



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 12th 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 12th 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*[™] online program, available at school or at home: www.careercruising.com. *Career Cruising*[™] 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 & 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>Planning, managing, and performing marketing activities to reach organizational objectives.</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>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: Integrated Science 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: Integrated Science 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.

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 One 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 One 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 9, 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/ Grade 11, 12

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**

11th Grade Required Courses - Continued

English 3	Algebra 2	Choice of One 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: 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: 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	
Recommended English Course: AP English	Recommended Math Courses: Trigonometry AP Calculus	Recommended Science Courses: AP Biology AP Chemistry AP Physics	Recommended History Courses: AP US History AP World History	Recommended Courses: AP Spanish AP French

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.

12th Grade Required Courses - Continued

English 4			World History and Geography	
Recommended English Course: AP English	Recommended Math Courses: Trigonometry Hon Diff Calculus AP Calculus	Recommended Science Courses: AP Biology AP Chemistry AP Physics	Recommended History Courses: AP US History AP World History	Recommended Courses: AP Spanish AP French

COURSE NUMBER/TITLE: 27065141 / **Honors World History/Geography** (HWorldHisGeo)

PREREQUISITE/GRADES: Teacher or Counselor Recommendation/ Grade 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/ Grades 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.

Recommended AP Courses

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

PREREQUISITE/GRADE: English 4 or Honors English 4/ Grade 11, 12

CREDIT 1 **Spring Semester Only**

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, Hon. Spanish 3/ Grades 11, 12

CREDIT: 1 **Spring Semester Only**

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: 12065901 / **AP French Language** (APFrenchLang)

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

CREDIT: 1 **Spring Semester Only**

Learn the four basic skills—listening, speaking, reading, and writing—with an emphasis placed on oral communication skills, grammar and culture. Become aware of the personal enjoyment, enrichment, and employment opportunities that this language study offers.

12th Grade Required Courses - Continued

English 4			World History	
Recommended English Course: AP English	Recommended Math Courses: Trigonometry AP Calculus	Recommended Science Courses: AP Biology AP Chemistry AP Physics	Recommended History Courses: AP US History AP World History	Recommended Courses: AP Spanish AP French

COURSE NUMBER/TITLE: 17355914/ *AP Physics (APPhysics)*

PREREQUISITE/GRADE: Honors Physics, Teacher or Counselor Recommendation/ Grades 10, 11, 12

CREDIT: 1 **Spring Semester Only**

AP Physics is a demanding college level course designed to prepare for the AP Physics test. Topics include mechanics; electricity and magnetism; modern physics; waves and optics; and kinetic theory and thermodynamics.

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: 17255914/ *AP Chemistry (APChemistry)*

PREREQUISITE/GRADE: Honors Chemistry, Teacher or Counselor Recommendation/ Grades 10, 11, 12

CREDIT: 1 **Spring Semester Only**

AP Chemistry is a demanding college level course designed to prepare for the AP Chemistry test. Topics include atomic theory and structure; chemical bonding; nuclear chemistry; states of matter and reactions.

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

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

CREDIT: 1 **Spring Semester Only**

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 (APUSHistory)*

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

CREDIT: 1 **Spring Semester Only**

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: 27555941/ *AP World History (APWorldHis)*

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

CREDIT: 1 **Spring Semester Only**

Prepare for the AP exam by developing a greater understanding of the evolution of global processes and contracts, in interaction with different types of human societies. Study the past 1000 years and develop an understanding of cultural, institutional, and technological precedents that, along with geography, determined the human state prior to 1000 C.E.

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 & 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 & 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 & 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 & 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 & 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: Bilingual Department & Counselor Recommendation/ 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 & 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: Bilingual Department & Counselor Recommendation/ 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



Getting a Head Start: Pathways for Gadsden 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, Gadsden High School offers the following pathways in these clusters:

Business Management

-  Administrative Information Support Pathway

Education and Training

-  Teaching and Training Pathway

Finance

-  Financial & Investment Planning


Health Services

-  Therapeutic Services

Hospitality and Tourism

-  Restaurant and Food Services Pathway

Law, Public Safety & Security

-  Law Enforcement Services/Security and Protective Services

Manufacturing

-  Manufacturing Technology Program - Bridge Program

Marketing, Sales, and Service

-  Marketing Pathway

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
Accounting 1 and 2	2	BOT 120 Accounting Procedures I	3
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
Law Enforcement 2	1	CJ101 Intro to Criminal Justice	3
Law Enforcement 3	1	LAWE 201 Intro to Juvenile Delinquency	3
Marketing 3	1	OEBS 210 Marketing	3



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
Management	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
Business Financial Management & Accounting	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
Human Resources	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
Business Analysis	Systems Analyst · E-Commerce Analyst · Requirements Specialist · Marketing Analyst · Operations Research Analyst · Business Consultant · Business Analyst · Budget Analyst · Product Manager · Price Analyst
Marketing	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
Administrative & Information Support	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
Cluster Knowledge and Skills	
❖ 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

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)
Recommended Elective: <i>General Computer Applications</i>	Pathway Elective: <i>Business Computer Applications 1</i> Recommended Elective <i>Business Law</i>	Pathway Elective: <i>Business Computer Applications 2</i>	Pathway Elective: <i>Business Computer Applications 3</i> Recommended Elective <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 2/ Grades 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/ Grades 12

CREDIT 1

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



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

Pathways	Sample Career Specialties/Occupations
Administration and Administrative Support	<ul style="list-style-type: none"> ▪ Superintendents, Principals, Administrators ▪ Supervisors and Instructional Coordinators ▪ Education Researchers, Test Measurement Specialists ▪ College Presidents, Deans ▪ Curriculum Developers ▪ Instructional Media Designers
Professional Support Services	<ul style="list-style-type: none"> ▪ Psychologists- Clinical, Developmental, Social ▪ Social Workers ▪ Parent Educators ▪ Counselors ▪ Speech-Language Pathologists and Audiologists
Teaching/ Training	<ul style="list-style-type: none"> ▪ Preschool, Kindergarten Teachers, Aids ▪ Elementary Teachers, Aids ▪ Secondary Teachers, Aids ▪ Special Education Teachers, Aids ▪ College/ University Lecturers, Professors ▪ Human Resource Trainers ▪ Physical Trainers ▪ Coaches ▪ Child Care Directors ▪ Child Care Workers ▪ Child Life Specialist ▪ Nanny ▪ Early Childhood Teachers and Assistants ▪ Teacher Aids ▪ Group Workers and Assistants
Cluster Knowledge and Skills	
<ul style="list-style-type: none"> ❖ 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 <li style="text-align: center;">**Technical Skills 	

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

9th (Freshmen)/10th (Sophomore)	11th (Junior)	12th (Senior)
Pathway Elective: <i>Child Development</i> Recommended Elective <i>Sociology or Psychology</i>	Pathway Elective: <i>Teacher Cadet 1</i> <i>Teacher Cadet 2</i> Recommended Elective <i>Sociology or Psychology</i>	Pathway Elective: <i>Teacher Cadet 3</i> Recommended Elective <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 11, 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: 2

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. Intensive program that consists of two consecutive class periods

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

PREREQUISITE/GRADES: Teacher Cadet 2/ Grades 11, 12

CREDIT: 2

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. Intensive program that consists of two consecutive class periods

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

PREREQUISITE/GRADE: Teacher Cadet 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.

COURSE NUMBER/TITLE: 27754932/ *Sociology 1 (Sociology1)*

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

CREDIT: 1

Want to learn about the field of sociology? Study human behavior in society and learn about social institutions and norms, socialization and social change, and the relationships of individuals and groups in society.

COURSE NUMBER/TITLE: 27714932/ *Psychology (Psychology)*

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

CREDIT: 1

Want to learn about the field of psychology? Study individual human behavior and learn about human growth and development, personality and behavior, and abnormal psychology.



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

Pathways	Sample Career Specialties/Occupations
Therapeutic Services	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
Diagnostics Services	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
Health Informatics	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
Support Services	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
Cluster Knowledge and Skills	
❖ 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 Sciences
Program of Study: Therapeutic Services
Certification: Certified Nursing Assistant (CNA)

11th (Junior)		12th (Senior)	
Recommended Elective: <i>Introduction to Health Careers</i>	Pathway Elective: <i>Nursing Assistant 1</i> Recommended Elective <i>Human Anatomy and Physiology 1</i>	Pathway Elective: <i>Nursing Assistant 2</i> Recommended Elective <i>Human Anatomy and Physiology 2</i>	Pathway Elective: <i>Nursing Assistant 3</i>

COURSE NUMBER/TITLE: 15014152/ *Introduction to Health Care Occupations (IntroHealth)*

PREREQUISITE/GRADES: Grades 11, 12

CREDIT: 1

Course designed for students with a possible interest in medicine or the allied health fields, Health Care Occupations Career Exploration courses expose students to the opportunities available in a variety of occupational clusters within the health care industry (such as dental care, general and administrative services, lab technology, nursing,

COURSE NUMBER/TITLE: 15957252/ *Nursing Assistant 1 (NurseAsst1)*

PREREQUISITE/GRADES: Intro to Health Care/Grades 11, 12

CREDIT: 1

The focus of this course is medical terminology. Whether your career goal is to become a doctor, x-ray technician, medical office worker or any other health related position the information you will gain from this course is part of the foundation you will need to be successful.

COURSE NUMBER/TITLE: 15047252/ *Nursing Assistant 2 (NurseAsst2)*

PREREQUISITE/GRADES: Nursing Asst. 1/Grades 11, 12

CREDIT: 1

Course covering the same scope of topics as Health Care Occupations courses, the Nursing course places a special emphasis on the particular competencies required of nurses and/or nursing assistants and aides. Topics may include normal growth and development; bathing, feeding, dressing, and transporting patients; basic pharmacology; doctor, nurse, patient relationships and roles; medical and professional ethics; death and dying; and care of various kinds of patients (chronically ill, medical-surgical, children, new mothers, and so on).

COURSE NUMBER/TITLE: 15047232/ *Nursing Assistant 3 (NurseAsst3)*

PREREQUISITE/GRADES: Nursing Asst. 2/Grades 12

CREDIT: 1

The is course is focused on preparing students with the knowledge and skills needed to successfully earn the Certified Nursing Assistant (CNA) certification.

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.

Career Cluster: Health Services

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

COURSE NUMBER/TITLE: 23514210/ *Physiology of Exercise 1 (PhysioExer1)*

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

CREDIT 1

Examine anatomy and physiology as they pertain to exercise and sport. Get an introduction to athletic training, sports health careers, and recognition/treatment of common musculoskeletal injuries.

COURSE NUMBER/TITLE: 23515210/ *Honors Physiology of Exercise 2 (H-PhysExer2)*

PREREQUISITE/GRADE: Physiology 1/ Grades 9, 10, 11, 12

CREDIT 1

Examine anatomy and physiology as they pertain to exercise and sport. Get an introduction to athletic training, sports health careers, and recognition/treatment of common musculoskeletal injuries.

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: 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.



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
Restaurants and Food/Beverage Services	<ul style="list-style-type: none"> ▪ General Manager ▪ Food & Beverage Manager ▪ Kitchen Manager ▪ Catering & Banquets Manager ▪ Service Manager ▪ Maitre'd ▪ Restaurant ▪ Owner ▪ Baker ▪ Brewer ▪ Caterer ▪ Executive Chef ▪ Cook ▪ Pastry & 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
Lodging	<ul style="list-style-type: none"> Front Office Manager ▪ Executive Housekeeper ▪ Director of Sales & Marketing ▪ Chief Engineer ▪ Director of Human Resources ▪ Rooms Division Manager ▪ Director of Security ▪ Controller ▪ Food & 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
Travel & Tourism	<ul style="list-style-type: none"> 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 & 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
Recreation, Amusements & Attractions	<ul style="list-style-type: none"> Club Manager ▪ Club Assistant Manager ▪ Club Instructor ▪ Club Equipment & Facility Maintenance ▪ Club Scheduler ▪ Club Event Planner ▪ Club Membership Developer ▪ Parks & Gardens Director ▪ Parks & Gardens Activity Coordinator ▪ Parks & Gardens Access Management ▪ Parks & Gardens Safety & Security ▪ Parks & Garden Ranger ▪ Resort Trainer ▪ Resort Instructor ▪ Resort Equipment Maintenance ▪ Resort Scheduler, Manager, Supervisor, Dealer, Slot Supervisor and Maintenance and Security & 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
Cluster Knowledge and Skills	
<ul style="list-style-type: none"> ❖ 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: Hospitality and Tourism
Program of Study: Restaurant and Food Services
Certification: Pro Start & Safe Serve

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

PREREQUISITE/GRADE: Nutrition 1/ 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 2 *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 2, 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 culinary arts industry.



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

Pathways	Sample Career Specialties/Occupations
Correction Services	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
Emergency and Fire Management Services	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
Security & Protective Services	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
Law Enforcement Services	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
Legal Services	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

Career Cluster: Law, Public Safety & Security

Program of Study: Law Enforcement Services/Security and Protective Services

Certification: NOCTI Criminal Justice General or NOCTI Criminal Justice Law Enforcement

9th (Freshmen)	10th (Sophomore)	11th (Junior)	12th (Senior)
Recommended Elective <i>Introduction to Law Enforcement</i>	Pathway Elective: <i>Law Enforcement 1</i> Recommended Elective <i>Psychology or Sociology</i>	Pathway Elective: <i>Law Enforcement 2</i> Recommended Elective <i>Psychology or Sociology</i>	Pathway Elective: <i>Law Enforcement 3</i> Recommended Elective <i>Psychology or Sociology</i>

COURSE NUMBER/TITLE: 25014802/*Introduction to Law Enforcement (IntroLaw)*

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

CREDIT 1

Learn the duties, responsibilities, requirements, and career opportunities within public service through the exploration of career education; protective services; correction, judicial, and probation services; fire protection and fire fighting; public administration; and social work.

COURSE NUMBER/TITLE: 25037802/ *Law Enforcement 1 (Law 1)*

PREREQUISITE/GRADE: Intro to Law Enforcement/ Grades 10, 11, 12

CREDIT 1

Study information regarding the personnel and agencies concerned with protection of the home, city, state, and nation through specific topics such as civil defense and disaster preparedness; crime prevention; fire prevention and control; legal and social systems and principles.

COURSE NUMBER/TITLE: 25137802/ *Law Enforcement 2 (Law2)*

PREREQUISITE/GRADE: Law Enforcement 1/ Grades 11, 12

CREDIT 1

Understand and apply the principles and procedures essential to the U.S. criminal justice system. Explore the principles and structure of the justice system and the law including traffic control, investigation, search and arrest, laboratory, forensic, and trial procedures. You may also learn CPR and first aid skills, personal defense tactics, and crime prevention techniques. *Note: You must take the midterm and final for this course on line (DACC), and you must get a C or better in the course to get credit.*

COURSE NUMBER/TITLE: 25137800/ *Law Enforcement 3 (Law3)*

PREREQUISITE/GRADE: Law Enforcement 2/ Grades 11, 12

CREDIT 1

Understand and apply the principles and procedures essential to the U.S. criminal justice system. Explore the principles and structure of the justice system and the law; course content also typically includes traffic control, investigation, search and arrest, laboratory, forensic, and trial procedures. Students may also learn CPR and first aid skills, personal defense tactics, and crime prevention techniques. *Note: You must take the midterm and final for this course on line (DACC), and you must get a C or better in the course to get credit.*

COURSE NUMBER/TITLE: 2774932/ *Sociology 1 (Sociology1)*

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

CREDIT 1

Study human behavior in society and learn about social institutions and norms, socialization and social change, and the relationships of individuals and groups in society.

COURSE NUMBER/TITLE: 27714932/ *Psychology (Psychology)*

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

CREDIT 1

Study individual human behavior and learn about human growth and development, personality and behavior, and abnormal psychology.



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
Production	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
Manufacturing Production Process Development	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
Maintenance, Installation & Repair	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
Quality Assurance	Calibration Technicians ▪ Inspectors ▪ Lab Technicians ▪ Process Control Technicians ▪ Quality Control Technicians ▪ Quality Engineers ▪ SPC Coordinators
Logistics & Inventory Control	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
Health, Safety and Environmental Assurance	Environmental Engineers ▪ Environmental Specialists ▪ Health and Safety Representatives ▪ Safety Coordinators ▪ Safety Engineers ▪ Safety Team Leaders ▪ Safety Technicians
Cluster Knowledge and Skills	
<ul style="list-style-type: none"> ❖ 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: Manufacturing
Program of Study: Manufacturing Technology
Certification: WIN Certification

9th Freshmen/ 10th (Sophomore)	11th (Junior)	12th (Senior)
Pathway Elective:	Pathway Elective: <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>	Pathway Elective: <i>Bridge 5: Manufacturing Systems</i> <i>Bridge 6: Technology Education</i> <i>OJT: Work Experience</i>

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.

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 industry.



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

Pathways	Sample Career Specialties/Occupations
Management and Entrepreneurship	Entrepreneurs • Owners • Small Business Owners • Presidents • Chief Executive Officers • Principals • Partners • Proprietors • Franchisees • Independent X's (e.g., distributor) • Customer Service Representatives
Professional Sales and Marketing	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
Buying and Merchandising	Store Managers • Retail Marketing Coordinators • Merchandising Managers • Merchandise Buyers • Operations Managers • Visual Merchandise Managers • Sales Managers • Department Managers • Sales Associates • Customer Service Representatives • Clerks (e.g., stock, receiving, etc.)
Marketing Communications and Promotion	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 •
Marketing Information Management and Research	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 •
Distribution and Logistics	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 •
E-Marketing	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 •
Cluster Knowledge and Skills	
<ul style="list-style-type: none"> ❖ 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 	

States' Career Clusters Initiative, 2006, www.careerclusters.org

Career Cluster: Marketing, Sales & Service
Program of Study: Marketing
Certification: A*S*K (Assessment of Skills and Knowledge of Business)

10th (Sophomore)	11th (Junior)	12th (Senior)
Pathway Elective: <i>Marketing 1</i>	Pathway Elective: <i>Marketing 2</i>	Pathway Elective: <i>Marketing 3</i> <i>Business OJT</i>

COURSE NUMBER/TITLE: 02267253/*Marketing 1 (Marketing1)*

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

CREDIT 1

Gain a basic understanding of marketing such as selling, promotion, and advertising. At the same time learn math, communication, and computer skills necessary for successful entry-level employment in retail, wholesale, and service businesses.

COURSE NUMBER/TITLE: 02237255/ *Marketing 2 (Marketing2)*

PREREQUISITE/GRADE: Marketing 1/ Grades 11, 12

CREDIT 1

Develop an in-depth knowledge of the marketing functions. Learn the importance of supervisory and management responsibilities, as well. Finally, gain hands-on retail experience by working in a student supply store.

COURSE NUMBER/TITLE: 02247235/ *Marketing 3 (Marketing3)*

PREREQUISITE/GRADE: Marketing 2/ Grades 12

CREDIT 1

Concentrate on strategies for career development through ownership/management of your own business. Also learn how to create a business plan for a business of your choice. Gain hands-on experience by helping run the student supply store, as well.

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

PREREQUISITE/GRADE: Marketing 2, 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 marketing 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>Transportation Operations</p>	<p>Air/Space Transportation: 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>Rail Transportation: 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>Water Transportation: 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>Road Transportation: 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>Transit Systems: 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>Logistics Planning and Management Services</p>	<p>Logisticians • Logistics managers • Logistics Engineers • Logistics analysts • Logistics consultants • International logistics</p>
<p>Warehousing and Distribution Center Operations</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>Facility and Mobile Equipment Maintenance</p>	<p>Facility: Facility maintenance managers and engineers • Industrial equipment mechanics • Industrial electricians, • Electrical/electronic technicians • Other facility/terminal maintenance jobs</p> <p>Mobile Equipment: Mobile equipment maintenance managers • Electrical and electronic installers and repairers—transportation equipment • Mobile heavy equipment mechanics</p> <p>Air/Space—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. Water—Motorboat mechanics • Ship mechanics and repairers • Motorboat mechanics • Automotive/truck mechanics and body repairers Rail—Rail car repairers • Signal and track switch repairers • Rail locomotive and car mechanics and repairers Road—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
Transportation Systems/ Infrastructure Planning, Management, and Regulation	<p>General—Intermodal--Urban and regional planners • Civil engineers • Engineering technicians • Surveying and mapping technicians • Government service executives • Environmental compliance inspectors Air/Space—Air traffic controllers • Aviation inspectors Road—Traffic engineers • Traffic technicians • Motor vehicle inspectors • Freight inspectors, Rail—Railroad inspectors Water—Marine cargo inspectors • Vessel traffic control specialists Transit—Public transportation inspectors Other---Other government agency managers • Regulators • Inspectors, other federal/state/local transportation agency jobs</p>
Health, Safety and Environmental Management	<p>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</p>
Sales and Service	<p>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</p>
Cluster Knowledge and Skills	
<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: Transportation, Distribution, & Logistics
Program of Study: Facilities and Mobile Equipment Maintenance
Certification: Automotive Service Excellence (ASE)

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

CREDIT 1

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

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

Architecture and Construction


Arts, Audio-Video Technology & Communications

Government

Human Services

Information Technology

Science, Technology & Engineering

	<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>
Pathways	Sample Career Specialties/Occupations
Food Products and Processing Systems	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
Plant Systems	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
Animal Systems	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
Power, Structural & Technical Systems	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
Natural Resources Systems	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
Environmental Service Systems	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
Agribusiness Systems	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
Cluster Knowledge and Skills	
❖ 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: Agriculture and Renewable Natural Resources

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

COURSE NUMBER/TITLE: 01334156/ *Introduction to Agriculture (IntroAgric)*

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

CREDIT 1

Learn about local, national, and global definitions; history; the role of agriculture in society; plant and animal sciences, production and processing; agricultural mechanics, including machine and tool operation; business and natural resource management; management of food and fiber systems; soil characteristics, formation and properties; and development of leadership and communication skills.

COURSE NUMBER/TITLE: 01524251/ *Agricultural Structures and Construction 1 (StrucConstr1)*

PREREQUISITE/GRADE: Intro to Ag/ Grades 10, 11, 12

CREDIT 1

Learn surveying, concrete and masonry, plumbing, basic carpentry, and electrical wiring. Apply the safe use of carpentry equipment, the use of measurement and layout tools, and laboratory safety procedures.

COURSE NUMBER/TITLE: 01524231/ *Agricultural Structures and Construction 2 (StrucConstr2)*

PREREQUISITE/GRADE: Ag. Structures I/ Grades 10, 11, 12

CREDIT 1

Apply the safe use of carpentry equipment, the use of measurement/layout tools, and laboratory safety procedures to construct large carpentry projects, such as storage buildings and other large structures. Become skilled in drafting, the use of materials lists, cost estimates, and plans to construct a facility.

COURSE NUMBER/TITLE: 01534251/ *Metal Fabrication for Agriculture Industry 1 (MetalFab1)*

PREREQUISITE/GRADE: Intro to Ag/ Grades 10, 11, 12

CREDIT 1

Learn tool identification, proper use of tools, shop safety practices, shielded metal arc welding (SMAW), metal inert gas (MIG) welding, and oxyacetylene cutting. Explore the use of various metal cutting and shearing machines, layout tools, and measurement tools.

COURSE NUMBER/TITLE: 01534231/ *Metal Fabrication for Agriculture Industry 2 (MetalFab2)*

PREREQUISITE/GRADE: Metal Fabr. I/ Grades 10, 11, 12

CREDIT 1

Explore drafting, create a materials list, figure cost estimates, and study the layout and construction of metal projects. Learn project design and safe construction methods.

COURSE NUMBER/TITLE: 01414252/ *Horticultural Science 1 (HortSci1)*

PREREQUISITE/GRADE: Intro to Ag/ Grades 9, 10, 11, 12 Spring Semester Only

CREDIT 1

Do you want to know what makes plants tick? Become acquainted with the processes of plant growth, including photosynthesis, respiration, and transpiration; plant cell structure; and taxonomy and classification—major areas of the science of plants, called botany. Study soil structure, nutrients and irrigation practices, as well.

COURSE NUMBER/TITLE: 01414232/ *Horticultural Science 2 (HortSci2)*

PREREQUISITE/GRADE: Hort Sci 1/ Grades 9, 10, 11, 12 Spring Semester Only

CREDIT 1

Continue to explore the techniques and methods of the following topics: growing, fertilizers, plant diseases and pest management with the application of pesticides; and scheduling methods to accommodate the above practices.

COURSE NUMBER/TITLE: 01444254/ *Landscape 1 (Landscape1)*

PREREQUISITE/GRADE: HortiSci 1/ Grades 10, 11, 12 Fall Semester Only

CREDIT 1

Learn to identify trees, shrubs, ground covers, and flowers used in popular landscapes. Do a site analysis, create a plan, draw the plan, (using instruments and computer-aided software), present the plan with cost estimates, and implement the plan (planting techniques, irrigation, concrete, and masonry skills). Learn to construct and maintain landscaping, including irrigation, math calculation for surfacing, fertilizing, and pruning skills.

Career Cluster: Agriculture and Renewable Natural Resources

COURSE NUMBER/TITLE: 01444234/ **Landscape 2** (*Landscape2*)
PREREQUISITE/GRADE: Landscape 1/ Grades 10, 11, 12 Fall Semester Only
CREDIT 1

Apply landscaping skill to real-life projects, using computer-aided software and advanced landscaping design.

COURSE NUMBER/TITLE: 01453152/ **Floriculture 1** (*Floricult1*)
PREREQUISITE/GRADE: None/ Grades 9, 10, 11, 12
CREDIT 1

Learn the history of floral design, principles of design, tools, containers, mechanics, care and handling, identification of cut flowers and uses, corsage construction, vase arrangement basics, centerpiece basics, and the study of color and color schemes in floral arranging.

COURSE NUMBER/TITLE: 01454152/ **Floriculture 2** (*Floricult2*)
PREREQUISITE/GRADE: Floriculture 1/ Grades 9, 10, 11, 12
CREDIT 1

Explore the different styles and techniques of design, including Oriental, Ikebana, Renaissance, European and contemporary. Focus on weddings, banquets, floral catering, and sympathy arrangements. Perform a mock wedding to include interview, selection of flowers, budgeting, invoicing, and ordering. Become familiar with the industry, including current trends, publications, and software and business practices.

COURSE NUMBER/TITLE: 01614152/ **Animal Science 1** (*AnimalSci1*)
PREREQUISITE/GRADE: None/ Grades 9, 10, 11, 12
CREDIT 1

Study anatomy and physiology of small livestock and other domesticated animals. Examine developmental stages and analysis of feed ration for different parts of an animal's life cycle. Identify environmental factors that affect an animal's performance. Recognize animal behaviors to facilitate working with the animal safely. Animal nutrition, health, reproduction, genetics, facilities, and marketing are all possible topics.



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

Pathways	Sample Career Specialties/Occupations
<p>Design/ Pre-Construction</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>Construction</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>Maintenance/ Operations</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>Cluster Knowledge and Skills</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>	



Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

Pathways	Sample Career Specialties/Occupations
Audio and Video Technologies	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
Printing Technologies	Graphics and Printing Equipment Operators • Lithographers and Platemakers • Computer Typography and Composition Equipment Operators
Visual Arts	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
Performing Arts	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
Journalism and Broadcasting	Audio/Video Operations • Control Room Technician • Station Mangers • Radio & TV Announcers • Publishers • Editors • Journalists • Reporters - Print, Broadcast, Other
Telecommunications Technologies	Telecommunication Technicians • Telecommunication Equipment • Cable, Line Repairers/Installers • Telecommunication Computer Programmers • Systems Analysts
Cluster Knowledge and Skills	
❖ 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 & Communications

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

COURSE NUMBER/TITLE: 10214934/ **Creative Writing** (CreativeWrtg)

PREREQUISITE/GRADE: English II or Instructor's Approval; application required/ 10, 11, 12

CREDIT: 1

Have fun learning to read and write poetry, short stories, plays, and magazine articles. Become a staff member of the Literary Magazine and develop an appreciation for various genres of literature while crafting/revising your own personal voice and style of writing. Learn new computer skills, editing, design, and layout techniques. **Fund-raising and limited after-school commitment are required components.**

COURSE NUMBER/TITLE: 10104945/ **Literature - Mythology** (LitMythology)

PREREQUISITE/GRADE: English I/ Grades 10,11,12

CREDIT: 1

Study and reflect upon the themes presented in mythology. Improve your critical thinking skills as you determine their underlying assumptions and values and their connection to culture and society's problems. Participate in discussions and write compositions, with a possible emphasis on college preparation.

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: 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: 11254911/ **Contemporary Band** (ContempoBand)

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

CREDIT: 1

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: 11414921/ **Music Theory** (MusicTheory)

PREREQUISITE/GRADES: Instructor Recommendation/ Grades 9, 10, 11, 12

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

Learn the fundamentals of music and about one or more of the following topics: composition, arrangement, analysis, aural development, and sight-reading.

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

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.

Career Cluster: Arts/AV Technology & Communications

COURSE NUMBER/TITLE: 11324912/ *Individual Technique (IndivTech)*
PREREQUISITE/GRADES: Audition & Instructor Approval/ Grades 11, 12
CREDIT: 1

Develop and refine your vocal technique further, with a focus on solo singing. Perform in seasonal concerts, school functions, and district/regional venues.

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

COURSE NUMBER/TITLE: 11624925/*Art 3 (Art3)*
PREREQUISITE/GRADES: Art 1, 2/ Grades 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 1/ 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: 11134111/ *Drama—Acting/Performance 3 (DramaActing3)*
PREREQUISITE/GRADE: Theatre 2/ Grades 10, 11, 12
CREDIT: 1

Expand your acting studies in this advanced drama class by preparing selected soliloquies from the works of William Shakespeare. In addition, explore careers in theatre.

Career Cluster: Arts/AV Technology & Communications

COURSE NUMBER/TITLE: 11134112/ **Drama—Acting/Performance 4** (*DramaActing4*)

PREREQUISITE/GRADE: Theatre 3/ Grades 10, 11, 12

CREDIT: 1

Expand your acting studies by preparing selected monologues from the works of modern drama and playwrights of the 20th century. Continue to explore careers in theatre.

COURSE NUMBER/TITLE: 11194112/ **Theatre Production** (*TheatreProd*)

PREREQUISITE/GRADES: Theatre 4/ Grades 10, 11, 12

CREDIT: 1

Refine acting, directing, stage-managing and producing skills needed to present a theatrical production. Explore different acting styles and period pieces.

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: 19024911/ **Journalism—Newspaper** (*JourNewsPape*)

PREREQUISITE/GRADES: Grades 9, 10, 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.

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: 19114941/ **Mass Media—Production** (*MassMedProd*)

PREREQUISITE/GRADES: Teacher Recommendation

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

Learn the skills needed to produce the student news broadcast, STTV. Level I, learn the duties of the various crew positions needed to produce the newscast. Also, study the history of broadcast journalism. Level II focus on editing and producing polished video projects. Further, examine the impact of mass media on the modern world. Level III focus on the skills needed to direct the newscast and conduct interesting interviews. Level IV focus on creating complete news packages for broadcast on STTV and the elements from Level I, II and III.



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

Pathways	Sample Career Specialties/Occupations
Financial & Investment Planning	Personal Financial Advisor • Tax Preparation • Sales Agents, Securities, Commodities Investment Advisors • Brokerage Clerk (Assistant) • Development Officers
Business Financial Management	Accountants • Financial Analysts • Treasurers, Controllers and Chief Revenue Agents • Auditor • Economists • Tax Examiners • Collectors • Revenue Agents
Banking & Related Services	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
Insurance Services	Claims Agents, Examiners, and Investigators • Claims Clerks • Insurance Appraisers • Underwriters • Actuaries • Sales Agents • Customer Service Agents • Processing Clerks • Direct Marketing
Cluster Knowledge and Skills	
❖ 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: Finance

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

COURSE NUMBER/TITLE: 02077151 / **Accounting 1** (Accounting1)

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

CREDIT 1

Learn the fundamentals of financial accounting, which includes a comprehensive approach to the 10-steps of the accounting cycle. Analyze and post journal transactions and prepare basic financial statements, using accounting software, calculators, and electronic spreadsheets. Learn how to apply intermediate topics such as standard auditing principles, depreciation, taxes, payroll, and various journal techniques.

COURSE NUMBER/TITLE: 02107151 / **Accounting 2** (Accounting2)

PREREQUISITE/GRADE: Accounting 1/ Grades 11, 12

CREDIT 1

Build upon the fundamentals learned in Accounting I. Explore advanced accounting principles in relation to various business entities. Explore various accounting functions, such as in-depth analysis of financial statements; month-end closing procedures; application of various depreciation methods to assets; and preparation of business taxes, using accounting software and electronic spreadsheets.

COURSE NUMBER/TITLE: 02397251 / **Accounting 3** (Accounting3)

PREREQUISITE/GRADE: Accounting 2/ Grades 12

CREDIT 1

Learn the fundamentals of federal and state taxation legislation on personal income. This course will focus on teaching the skills and knowledge necessary to earn the Internal Revenue Service Tax Preparer's Certificate.

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: 02064151 / **Data Management** (DataManageme)

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

CREDIT 1


Learn the procedures involved in recording personal financial transaction, as well as transactions used by small businesses. Gain skills in designing a personal budget, managing a checkbook, buying a home, completing their own income tax returns, investing, and operating a small business.

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

PREREQUISITE/GRADE: Accounting 1, 2, 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 business field.

	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.
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Pathways	Sample Career Specialties/Occupations
Governance	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
National Security	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
Foreign Service	Ambassador • Foreign Service Officer • Consular Officer • Administrative Officer • Political Officer • Economic Officer • Diplomatic Courier
Planning	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
Revenue and Taxation	Assessor • Tax Auditor • Internal Revenue Investigator • Revenue Agent/Officer • Tax Examiner/Assistant/Clerk • Inspector General • Tax Attorney • Tax Policy Analyst
Regulation	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
Public Management and Administration	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
Cluster Knowledge and Skills	
❖ 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: Government & Public Administration

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

All Naval Science students are required to wear the prescribed uniform once a week and to attend monthly after school company drills.

COURSE NUMBER/TITLE: 21113020/ **ROTC 1 (ROTC1)**

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

CREDIT: 1 *Can be taken twice for credit*

Learn about the purposes and objectives of the Reserve Officer Training Corps program. Course topics include basics of military drill, ceremony, and rank structure. Become knowledgeable in leadership drills, commands, and ceremonies; Maritime History (to the 1990s and beyond); and Nautical Sciences (Maritime Geography, Oceanography, Meteorology, Astronomy, Physical Science). Two Semester Course

COURSE NUMBER/TITLE: 21114020/ **ROTC 2 (ROTC2)**

PREREQUISITE/GRADES: ROTC 1/ Grade 10, 11, 12

CREDIT: 1 *Can be taken twice for credit*

Learn about the purposes and objectives of the Reserve Officer Training Corps program. Course topics include basics of military drill, ceremony, and rank structure. Become knowledgeable in leadership drills, commands, and ceremonies; Maritime History (to the 1990s and beyond); and Nautical Sciences (Maritime Geography, Oceanography, Meteorology, Astronomy, Physical Science). Two Semester Course

COURSE NUMBER/TITLE: 21123020/ **ROTC 3 (ROTC3)**

PREREQUISITE/GRADES: ROTC 2/ Grades 11, 12

CREDIT: 1 *Can be taken twice for credit*

Learn about Naval Knowledge: Seapower and National Security, Naval Operations, Military and International Law of the Sea, and Naval Skills (Ship Construction and Damage Control), Shipboard Organization, Basic Seamanship, Marine Navigation, Naval Weapons and Aircraft, Rules of the Nautical Road, and Relative Motion. Two Semester Course

COURSE NUMBER/TITLE: 21124020/ **ROTC 4 (ROTC4)**

PREREQUISITE/GRADES: ROTC 3/ Grade 12

CREDIT: 1 *Can be taken twice for credit*

Learn about Naval Knowledge: Seapower and National Security, Naval Operations, Military and International Law of the Sea, and Naval Skills (Ship Construction and Damage Control), Shipboard Organization, Basic Seamanship, Marine Navigation, Naval Weapons and Aircraft, Rules of the Nautical Road, and Relative Motion. Two Semester Course



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

Pathways	Sample Career Specialties/Occupations
Early Childhood Development & Services	Directors • Childcare Facilities Assistant Directors • Childcare Facilities • Elementary School Counselors • Preschool Teachers Educators for Parents • Nannies • Teachers' Assistants • Childcare Assistants/Workers
Counseling & Mental Health Services	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
Family & Community Services	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
Personal Care Services	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
Consumer Services	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
Cluster Knowledge and Skills	
❖ 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.

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: 00000000/ **Peer Counselor** (PeerCounsel)

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

CREDIT

1

Can be taken four times for credit

No Description

COURSE NUMBER/TITLE: 05134154/ **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.

COURSE NUMBER/TITLE: 05164150/ **Personal Development** (PersonalDev)

PREREQUISITE/GRADE: Counselor Recommendation

CREDIT

1

Take a course that focuses on the individual, but is similar to a Family Living Course. Grow personally and develop self-esteem, recognition of and resistance to negative social influences (possibly including substance-abuse prevention), and coping skills. Learn to face reality, accept responsibility, set reasonable goals, use logic to solve problems, and clarify values.

COURSE NUMBER/TITLE: 27754900/ **Sociology 1** (Sociology1)

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

CREDIT:

1

Want to learn about the field of sociology? Study human behavior in society and learn about social institutions and norms, socialization and social change, and the relationships of individuals and groups in society.

COURSE NUMBER/TITLE: 27764931/ **Sociology 2** (Sociology2)

PREREQUISITE/GRADES: Sociology I/ Grades 10, 11, 12

CREDIT:

1

Learn about social institutions and norms, socialization and social change, and the relationships of individuals and groups in society.

COURSE NUMBER/TITLE: 27714900/ **Psychology** (Psychology)

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

CREDIT:

1

Want to learn about the field of psychology? Study individual human behavior and learn about human growth and development, personality and behavior, and abnormal psychology.



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

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

COURSE NUMBER/TITLE: 03144150/ **Data Systems & Processing** (DataSystProc)

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

CREDIT 1

Explore the uses and operation of computer hardware and software and the programming languages used in business applications. Learn to use BASIC, COBOL, and/or RPL languages as you write flowcharts or computer programs; you may also learn data processing skills.

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

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>Engineering and Technology</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 & 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>Science and Math</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>Cluster Knowledge and Skills</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.

COURSE NUMBER/TITLE: 16264152/ **Emergent Technology** (EmergTech)

PREREQUISITE/GRADES: None

CREDIT: 1

Discover new technologies impacting our technological society. Learn about video production and editing, lasers, fiber optics, electronics, robotics, technical communications, bio/chemical technologies, and computer technologies (artificial intelligence, computer-aided design and/or machining, and so on).

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.

COURSE NUMBER/TITLE: 17614914/17612114/ **Astronomy** (Astronomy)

PREREQUISITE/GRADES: Integrated Science 1/ Grades 10, 11, 12

CREDIT: 1

Explore and extend space concepts studied in Integrated Science 1 and 2. Topics include the solar system; stars, galaxies, and interstellar bodies; and scientific theories about the origin and evolution of the universe. Develop conduct, and share at least one individual experiment to investigate a concept or topic in depth.

COURSE NUMBER/TITLE: 17514914/ **Environmental Science** (EvironSci)

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

CREDIT: 1

Explore and extend environmental concepts studied in Integrated Science 1 and 2. Investigate human impact on ecosystems and propose solutions to problems. Examine current local and global issues such as recycling, water and air pollution, and conservation of living and non-living resources. Develop conduct, and share at least one individual experiment to investigate a concept or topic in depth.

COURSE NUMBER/TITLE: 04520000/ **Electronics** (Electronics)

PREREQUISITE/GRADE: Grades 9, 10, 11, 12

CREDIT: 1

Courses offer training in the theory and skills involved in repairing and rebuilding electronic equipments such as radios, television sets, and industrial equipment; they typically include the basic theory of electricity as well. Course topics may include AC, DC, analog, and integrated circuitry, solid state and digital devices, amplifiers, and semiconductors.

Elective Courses—Athletics

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

COURSE NUMBER/TITLE: 23054220/ **Physical Education 2** (PhysicalEd2)
PREREQUISITE/GRADES: Phys. Ed. 1/ Grades 10, 11, 12
CREDIT: 1 *Can be taken four times for credit*
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.

COURSE NUMBER/TITLE: 23214220/ **Gymnastics 1** (Gymnastics1)
PREREQUISITE/GRADES: Phys. Ed. 1/ Grades 10, 11, 12
CREDIT: 1 *Can be taken four times for credit*
Develop skills in gymnastics.

COURSE NUMBER/TITLE: 23213220/ **Gymnastics 2** (Gymnastics2)
PREREQUISITE/GRADES: Gymnastics 1/ Grades 10, 11, 12
CREDIT: 1 *Can be taken four times for credit*
Continue to develop skills in gymnastics.

COURSE NUMBER/TITLE: 23124210/ **Tennis** (Tennis)
PREREQUISITE/GRADES: Physical Education 1/ Grades 10, 11, 12
CREDIT: 1 *Can be taken four times for credit*
Develop skills in tennis.

COURSE NUMBER/TITLE: 23144220/ **Aerobics** (Fit/CondAero)
PREREQUISITE/GRADES: Physical Education 1/ Grades 10, 11, 12
CREDIT: 1 *Can be taken four times for credit*
Develop skills in physical fitness, while doing aerobics.

Elective Courses

COURSE NUMBER/TITLE: 08214000/ **Student Aide** (StudentAide)
PREREQUISITE/GRADE: 2.0 GPA/ 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 world and traffic procedures, safe driving strategies and practices, and the physical and mental factors affecting the driver's capability (including alcohol and other drugs).

Elective Courses

COURSE NUMBER/TITLE: 08900000/ *College Success—ENLACE 1 (CollegSucce1)*

PREREQUISITE/GRADE: NMSU Application/ Grades 11, 12

CREDIT 1

Prepare for particular state tests required for graduation. Study content areas (such as citizenship, mathematics, language arts, and so on) or test preparation, according to your individual needs.

COURSE NUMBER/TITLE: 08904000/ *College Success—ENLACE 2 (CollegSucce2)*

PREREQUISITE/GRADE: NMSU Application/ Grades 11, 12

CREDIT 1

Prepare for particular state tests required for graduation. Study content areas (such as citizenship, mathematics, language arts, and so on) or test preparation, according to your individual needs.

COURSE NUMBER/TITLE: 08900000/ *College Success—ENLACE 3 (CollegSucce3)*

PREREQUISITE/GRADE: NMSU Application/ Grades 11, 12

CREDIT 1

Prepare for particular state tests required for graduation. Study content areas (such as citizenship, mathematics, language arts, and so on) or test preparation, according to your individual needs.

COURSE NUMBER/TITLE: 05064150/ *Sewing 1 (Sewing1)*

PREREQUISITE/GRADE: None/ Grade 9, 10, 11, 12

CREDIT 1

Courses introduce and expand upon the various aspects of wearing apparel, sewing, and fashion. Information provided usually covers wardrobe planning; selection care, and repair of various materials; and construction of one or more garments.

COURSE NUMBER/TITLE: 05064151/ *Sewing 2 (Sewing2)*

PREREQUISITE/GRADE: Sewing 1/ Grade 10, 11, 12

CREDIT 1

Courses introduce and expand upon the various aspects of wearing apparel, sewing, and fashion. Information provided usually covers wardrobe planning; selection care, and repair of various materials; and construction of one or more garments. Clothing/Sewing courses may also include related topics, such as fashion design, fashion history, social and psychological aspects of clothing, careers in the clothing industry, and craft sewing.

COURSE NUMBER/TITLE: 05064155/ *Sewing 3 (Sewing3)*

PREREQUISITE/GRADE: Sewing 2/ Grades 10, 11, 12

CREDIT 1

Courses introduce and expand upon the various aspects of wearing apparel, sewing, and fashion. Information provided usually covers wardrobe planning, selection care, and repair of various materials and construction of one or more garments. Clothing/Sewing courses may also include related topics, such as fashion design, fashion history, social and psychological aspects of clothing, careers in the clothing industry, and craft sewing.

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.

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.

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

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.)

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.

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

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 ability to move about and communicate within their surrounding communities..

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.

COURSE NUMBER/TITLE: 28082000/ *Work Study JTP 1 (WorkJTP1)*
 28082001/ *Work Study JTP 2 (WorkJTP2)*
 28082004/ *Work Study JTP 3 (WorkJTP3)*
 28082005/ *Work Study JTP 4 (WorkJTP4)*
 28082002/ *Work Study JTP 5 (WorkJTP5)*

PREREQUISITE/GRADES: None

CREDIT: 1

COURSE NUMBER/TITLE: 16062000/ *Work Study Campus 1 (WorkCampus1)*
 16062140/ *Work Study Campus 2 (WorkCampus2)*
 16062040/ *Work Study Campus 3 (WorkCampus3)*
 16062100/ *Work Study Campus 4 (WorkCampus4)*
 16062110/ *Work Study Campus 5 (WorkCampus5)*

PREREQUISITE/GRADES: None

CREDIT: 1

COURSE NUMBER/TITLE: 16062030/ *Work Experience 1 (WorkExp1)*
 16062033/ *Work Experience 2 (WorkExp2)*
 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.

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

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
Health Science Technology	15037252	Allied Health Occupations 1 (<i>AlliedHealt1</i>)	4
	15037232	Allied Health Occupations 2 (<i>AlliedHealt2</i>)	4
Legal Office Man-	25042150	Public Administration (<i>PublicAdmin</i>)	4
Law Enforcement	25132150	Criminal Justice Assisting (<i>CriminalJust</i>)	4
Auto Collision Repair	09422152	Automotive Body Repair and Refinishing 1	4
	09422150	Automotive Body Repair and Refinishing 2 (<i>AutoBody2</i>)	4
Automotive Technology	09127250	Automotive Technology—Comprehensive 1 (<i>AutoTechCom1</i>)	4
	09127230	Automotive Technology—Comprehensive 2	4
Diesel Technology	09157250	Diesel Mechanics--General 1 (<i>DieselMech1</i>)	4
	09157230	Diesel Mechanics--General 2 (<i>DieselMech2</i>)	4
Fashion Design	05112151	Fashion Design 1 (<i>Fashion1</i>)	4
	05112150	Fashion Design 2 (<i>Fashion2</i>)	4
Advertising Design	13232151	Commercial Art 1 (<i>CommArt1</i>)	4
	13232150	Commercial Art 2 (<i>CommArt2</i>)	4
Cosmetology	06032150	Cosmetology 1 (<i>Cosmetology1</i>)	4
	06032130	Cosmetology 2 (<i>Cosmetology2</i>)	4
Nail Technician	06062150	Cosmetology--Nail Technician 1 (<i>NailTech1</i>)	4
	06062130	Cosmetology--Nail Technician 2 (<i>NailTech2</i>)	4
Culinary Arts	05087250	Culinary Arts 1 (<i>CulinaryArt1</i>)	4
	05087232	Culinary Arts 1 (<i>CulinaryArt2</i>)	4

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

CCTE Course Title	ADS Course Number	ADS Course Title	Maximum # of Credits
Hotel Restaurant Travel Management	05287250	Hospitality, Tourism, and Recreation 1	4
	05287230	Hospitality, Tourism, and Recreation 2 (Hospitality2)	4
Microcomputer	03177250	Computer Technology (ComputerTech)	4
Web Page Design	03157230	Computer Graphics (ComGraphics)	4
Telenetworking	03187250	Network Technology (NetworkTech)	4
Telecommunica-	02767230	Web Page Design (WebPagDesign)	4
Electrical Technology	04422152	Electricity--Comprehensive 1 (ElectricCom1)	4
	04422132	Electricity--Comprehensive 2 (ElectricCom2)	4
Engineering and Architectural Drafting	07072151	CAD Design and Software 1 (CADDDesign1)	4
	07072150	CAD Design and Software 2 (CADDDesign2)	4
Electronics Technology	04527252	Electronics--General 1 (Electronics1)	4
	04527232	Electronics--General 2 (Electronics2)	4
Machining Technology	24027252	Machining 1 (Machining1)	4
	24027232	Machining 2 (Machining2)	4
Robotics & Automation	16242152	Manufacturing Systems 1 (ManufacSys1)	4
	16242150	Manufacturing Systems 2 (ManufacSys2)	4
CTED Piping Trades/Plumbing	04382151	Plumbing 1 (Plumbing1)	4
	04382150	Plumbing 2 (Plumbing2)	4
CTED Carpentry Technology	04162151	Particular Topics in Carpentry 1 (PTCarpentry1)	4
	04162150	Particular Topics in Carpentry 2 (PTCarpentry2)	4
CTED Major Appliance Technology	16332150	Appliance Repair (ApplianceRep)	4
CTED Food Production	05122152	Advanced Foods (AdvFoods)	4
CTED Marketing Dynamics	18022150	Principles of Marketing (Marketing)	4
CTED Computer Exploration	16952150	Technology Education—Related Subjects (TechEdRelSub)	4
CTED Building Maintenance I	04732150	Building Maintenance I (BuildMaint1)	4
	04422132	Electricity--Comprehensive 2 (ElectricCom2)	4

Course Index

02077151	Accounting 1	48	11814922	Art Portfolio	45
02107151	Accounting 2	48	17614914	Astronomy	56
02397251	Accounting 3	48	30254000	Athletic Training	26, 57
23144220	Aerobics	58	09014152	Auto Intro	37
01334156	Ag - Intro to	40	16067230	Auto OJT	37
01534251	Ag - Metal Fab 1	40	09127252	Auto Tech 1	37
01534231	Ag - Metal Fab 2	40	09127232	Auto Tech 2	37
01527251	Ag Structures 1	40	09137232	Auto Tech 3	37
01527231	Ag Structures 2	40	09137252	Auto Tech 4	37
20314131 20312111	Algebra 1	8	11224911	Band – Concert	44
20414130 20412110	Algebra 2	12	11254911	Band - Contemporary	44
20415133	Algebra 2 - Honors	12	11034925	Band - Flags	44
17134934 17132134	Anatomy 1	25	11234912	Band - Marching	44
01614152	Animal Science 1	41	11414921	Band - Music Theory	44
17155914	AP Biology	16	30103100	Baseball	57
20585923	AP Calculus AB	16	30044100	Boys Basketball	57
17255914	AP Chemistry	16	30054100	Boys Soccer	57
10135945	AP English	15	07139254	Bridge 1	32
12065901	AP French	15	16119254	Bridge 2	32
17355914	AP Physics	16	04449254	Bridge 3	32
12025901	AP Spanish	15	16249254	Bridge 4	32
27255941	AP US History	16	16129254	Bridge 5	32
27555941	AP World History	16	16959254	Bridge 6	32
11614925 11612925	Art 1	45	16067230	Bridge OJT	32
11624921	Art 2	45	02037255	Bus. Comp App 1	21
11624925	Art 3	45	03037255	Bus. Comp App 2	21

03037235	Bus. Comp App 3	21
02504153	Business Law	21, 48
02977230	Business OJT	21,34
20575923	Calculus – Honors	15
10744255 10742152	Career Communications	13
	CCTE Courses	63-64
05057252	Child Development	23
11304921	Choir - Chorus	44
11304922	Choir - Concert	44
11324912	Choir - Individual Technique	45
11414921	Choir—Music Theory	45
11314912	Choir - Vocal Ensemble	45
08900000	College Success 1	59
08904000	College Success 2	59
08904100	College Success 3	59
30203100	Conditioning – Athlete	57
10214934	Creative Writing	44
05087252	Culinary Arts 1	28
05327253	Culinary Arts 2	28
05327233	Culinary Arts 3	28
16067230	Culinary OJT	28
02064151	Data Management	25
03144150	Data Systems	54
11124121	Drama 1	45
11124120	Drama 2	45

11134111	Drama 3	45
11134112	Drama 4	46
11114128	Drama Intro	45
11194112	Drama Production	46
08174100	Driver's Ed	58
25977230	Education OJT	23
04524154	Electronics	56
16264152	Emergent Tech	56
10014144 10012152	English 1	8, 17
10024144 10222152	English 2	10, 17
10024144 10022152	English 2	10, 17
10025144	English 2 - Honors	10
10034145 10032153	English 3	12
10035145	English 3 - Honors	12
10044145 10042154	English 4	14
10045145	English 4 – Honors	14
17514914	Environmental Sci	56
01453152	Floriculture 1	41
01454152	Floriculture 2	41
30013100	Football	57
12364101	French 1	9
12374101	French 2	11
12385101	French 3	14
03024155	Gen Computer App	21, 55
20344130 20342110	Geometry	10

20345133	Geometry - Honors	10	10104945	Lit – Mythology	44
30053100	Girl's Soccer	57	02267253	Marketing 1	34
30033100	Girl's Volleyball	57	02237255	Marketing 2	34
30043100	Girls Basketball	57	02247235	Marketing 3	34
23213220	Gymnastics 1	58	19114941	Mass Comm – Mass Media	46
23214220	Gymnastics 2	58	27174142 27172142	New Mex History	10
01414252	Hort 1	40	15014152	Nursing - Intro to Health	25
01414232	Hort 2	40	15957252	Nursing Asst. 1	25
	IEP Courses	61-63	15047252	Nursing Asst. 2	25
17114114 17112113	Integ Sci 3 – Bio	13	17137914	Nursing Asst. 3	25
17125914	Integ Sci 3 – Bio - Honors	13	05044152	Nutrition 1	26, 28
17214124	Integ Sci 3 – Chem	12	23054110 23052110	P.E. 1	8
17235914	Integ Sci 3 – Chem Honors	12	23054220	P.E. 2	58
17314114	Integ Sci 3 – Physics	12	10623810	PAL - Eng LUS	17
17335914	Integ Sci 3 – Physics Honors	13	10623852	PAL - English for Content	17
17414113 17412113	Integ. Science 1	8	10623853	PAL - ESL1	17
17414114 17412114	Integ. Science 2	10	10623844	PAL - ESL3	17
17415114	Integ. Science 2 - Honors	10	10623851	PAL -Eng SW	17
17415113	Integrated Sci 1- Honors	8	10623843	PAL -ESL 2	17
19024911	Journalism - Newspaper	48	00000000	Peer Counselor	52
19034921	Journalism - Yearbook	48	05164150	Personal Develop	52
01444254	Landscape 1	40	23514210	Physiology Exercise	26
01444234	Landscape 2	41	23515210	Physiology Exercise 2 - Honors	26
25014802	Law Enforcement - Intro	30	16254125	PREP - Tech Systems	56
25037802	Law Enforcement 1	30	27714932	Psychology	23, 30 52
25137802	Law Enforcement 2	30	10094911	Read 180	59
25137800	Law Enforcement 3	30	10203900	Read Intervention	59
08253100	Library Aide	52	21113020	ROTC 1	50
05134154 05132151	Life Skills	52	21114020	ROTC 2	50

21124020	ROTC 4	50
05064150	Sewing 1	59
05064151	Sewing 2	59
05064155	Sewing 3	59
27754932	Sociology 1	23, 30 52
27764900	Sociology 2	52
30123100	Softball	57
12545101	Span 3 - Honors	11,14
12714101 12712101	Span Native 1	9
10734101 17032101	Span Native 2	9, 11
12734101 12732101	Span Native 3	11, 13
12534101 12532101	Span Non Nat 2	11
12524101 12522101	Span. Non Nat 1	9
08214000	Student Aide	58
25347253	Teacher Cadet 1	23
25337253	Teacher Cadet 2	23
25337233	Teacher Cadet 3	23
23124210	Tennis	58
27065141	Trigonometry – Honors	15
27394142 27392142	US Government and Economics	8
27294142 27292142	US Hist/Geo	13
27295141	US Hist/Geo - Honors	13
30163100	Weights – Athlete	57
23223220	Weights 1	58
23224220	Weights 2	58
27064142 27062142	World Hist/Geo	14
27065141	World Hist/Geo - Hon- ors	15