Gadsden Independent School District

2010-2011 High School Pre-Registration Handbook for Students and Parents

Chaparral High School Desert Pride Academy Gadsden High School Santa Teresa High School



Gadsden Independent School District School Board Approved December 10, 2009 **Cynthia Nava** Superintendent P.O. Drawer 70 Anthony, New Mexico 88021 (505) 882-6200



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, and course descriptions 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 worksheet. This handbook contains information concerning registration and graduation requirements, and A Guide to Career Clusters and Pathways contains descriptions of each course and pathway taught in the high schools. Information regarding college requirements, college tests, financial aid, scholarships, and career objective plans may be acquired from your counselor.

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

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

Sincerely,

Cynthia Nava, Superintendent

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Planning Your Future: Career Pathways

This guidebook is designed to help you select courses during your high school years that will support your future education and employment plans. The majority of employment opportunities that provide people with a "living wage" require specific skills and education beyond high school. Determining which direction to go is not always easy, and at the end of your 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 childcare 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 you 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.

TESTING INFORMATION

The following information is offered as a guide to assist parents and students. It is recommended that all students take advantage of these tests when they are offered.

PSAT: A preview test to the SAT that is available to all sophomores and juniors; National Merit Scholarship Qualifying Test when taken as a junior

ACT:	A college admission test accepted by all universities; preferred by most New Mexico Universities.
SAT:	A college admission test accepted by all universities, preferred by exclusive schools and by
	Texas schools

Test dates are available in the Counseling Center and in English classes. Depending on the school, ACT or SAT scores are required for college admission.

Interest Inventories: Assessment tools available to help students determine career interests ASVAB: A military aptitude test available to all grades; on a volunteer basis An entrance exam for the Dona Ana Community College and for qualification for ACT/Compass: courses articulated with DACC.

Testing Calendar

	1050
PSAT:	October
HSTW:	January-February (Grade 12)
ACCESS:	Spring (ELL students only)
NMSBA:	Spring (Grade 11)
PLAN:	PreACT See counselor for information
SAT:	See counselor for information
ACT:	See counselor for information
ASVAB:	See counselor for information

CLASSIFICATION OF STUDENTS

POLICIES FOR TRANSFERRING CREDITS FROM FOREIGN COUNTRIES

- 1) Students transferring from Mexico (or countries with similar grading systems) should present their transcript to the counselors to be evaluated as follows:
 - a. Only Grade 3 of secundaria (U.S. Grade 9) should be reviewed along with grades 1, 2, & 3 of preparatoria (U.S. Grades 10, 11, 12). Only those courses for which the student has earned an A, B, C, or D (A = 95, B = 85, C = 75, D = 65, unless percentage grades are on transcript) will be counted for credit. A student may only transfer up to eight (8) credits per year, some of which may be electives. A student may only transfer up to a total of 8 credits. b.

decimals are not to be rounded off.

- The students may transfer half-credits if earned under a semester system. Grade conversion: Numerical grades based on a scale of 10 are converted into percentages / letter grades as с.
- follows: 1

10 = 100 = A +	
9 = 90 = A	(Numerical grades with decimals <u>a</u>
8 = 80 = B	A 7.9 is still 79, which equals a C)
7 = 70 = C	
6 = 60 = D	
0-5 = 50 = F	(No Credit Allowed)

- Student enrolling with transcripts from countries with dissimilar systems will be evaluated on an individual basis. 2)
- Foreign exchange students may only be classified as 11th grade students and are not eligible to graduate from 3)
 - Gadsden Independent School District.
- Persons who have successfully completed the equivalent of U.S. high school in their country of origin are NOT 4) eligible to matriculate in high school in New Mexico.

CLASSIFICATION REQUIREMENTS (determined in June of each year)

- To be classified as a sophomore a minimum of 6 credits are needed.
- To be classified as a junior a minimum of 12 credits are needed. .
- To be classified as a senior a minimum of 20 credits are needed.
- Transfer students entering with 19 credits are reclassed in January as seniors.

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Seniors need 28 credits to graduate. ** (See page 6)

GRADUATION CREDIT AND HOME SCHOOLING

New Mexico Statutes require any person operating or intending to operate a home school to notify the Secretary of Education of the establishment of a home school within thirty (30) days of its establishment and to notify the Secretary of Education on or before April 1st prior to each subsequent year of operation. Graduation credit will only be given to home school students upon the receipt of a transcript from an accredited online and/or correspondence school, as required by Public Education Department regulations.

CREDIT FOR HIGH SCHOOL COURSES AT THE MIDDLE SCHOOL

At the present time, Gadsden ISD offers five courses that students can take at the Middle School level that will earn them High School graduation credit. Those courses are:

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General Computer Applications

Spanish 1

Spanish 2

PREPS

- English 1
 - Honors English 1
 - Algebra 1
 - Honors Algebra 1
 - Geometry
 - Honors Geometry

Qualifying Steps for Placement into Various Courses

To be eligible for placement into English 1, Algebra 1, and Geometry students must meet the following eligibility criteria: Students qualify automatically if their performance on the New Mexico Standards-based Assessment Step 1: (NMSBA) receives a rating of Advanced in Language Arts and/or Mathematics.

Students whose performance on the New Mexico Standards-based Assessment (NMSBA) receives a rating Step 2: of proficient in Language Arts and/or Mathematics may still be considered. If the student is referred to the Student Assistance Team (SAT) for placement, the committee will consider the student's grades and teacher recommendation and any other previous standardized tests. These students will qualify on the recommendation of the SAT after considering this information. If the student still does not qualify, the end of the book test in Pre-Algebra or a Language Arts Department test may be added to the student's profile and the SAT may reconsider approval of the placement.

Credit for High School Classes will be awarded as follows:

- In order to receive High School credit student must pass with a 60% or above. Students earning 80-100% in a high school class as 7th or 8th-grade students can be recommended for Honors 2 courses.

STUDENTS MAY <u>NOT</u> TAKE THESE COURSES AGAIN AT THE HIGH SCHOOL IF THEY HAVE ALREADY PASSED THEM AT THE MIDDLE SCHOOL LEVEL (As per 6.30.2 NMAC- "A student cannot take the same course twice for credit.")

Notice of/Credit for these courses will be transmitted by an official letter/transcript from the middle school and sent to the Office of the Associate Superintendent for Instruction, and the corresponding High School Principal and Counseling Department Chair.

GRADUATION AND BEYOND GRADUATION REQUIREMENTS

*Students who transfer as seniors to Gadsden Independent School District from a traditional six-period or seven-period day will be required to complete successfully the minimum state requirement of 23.5 credits.

A New State Requirement Graduation

Being proficient on the 11th grade NMSBA is a new state requirement for graduation. This is a Standards Based Assessment. To be prepared to pass the assessment, students will need to be enrolled in the following courses at the beginning of their third year in high school. Beginning with the class of 2012 the following prerequisites are required:

- English III (with credit for English I and English II)
- Algebra II (with credit for Algebra I and Geometry) •
- One of the following- Biology, Chemistry, or Physics (With credit for integrated Science I and II).
- World History (With credit for American Government, and U.S. History)
- To be eligible for graduation, one for the following needs to be completed- an AP course, an online course, an honors course or a dual credit course.

Special Education

Awarding of a high school diploma or certificate of completion to students in a special education program shall be in accordance with Educational Standards for New Mexico Public Schools. effective July 1988.

Regular Education

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The Gadsden Independent School District specifies graduation requirements for all students. These requirements meet and in some instances exceed the requirements specified in the New Mexico Standards for Excellence. Graduating classes of 2011 & 2012. must successfully complete the following core requirements:

- 1. Four (4) credits in English
 - a. English 1 1 credit b. English 4 1 credit
- c. English 3 1 credit d. English 2 - 1 credit.

Integrated Chemistry 3

- 2. Three (3) credits in Mathematics, at least one of which is equivalent to Algebra I or higher a. Algebra 1 c. Algebra 2
- b. Geometry 3. Three (3) credits in Science, one of which must have a laboratory component
 - c. Integrated Biology 3 or Integrated Physics 3 or
 - a. Integrated Science 1 b. Integrated Science 2
- 4. Four (4) credits in Social Sciences
 - a. U.S. Governments/Economics 1 credit
 - New Mexico History and Geography 1 credit b.
 - One (1) credit in Physical Education
- One (1) credit in Communication Skills. 6.
- c. World History/Geography 1 credit
- d. United States History/Geography 1 credit
- Additionally, students enrolled at Desert Pride Academy, Gadsden High School, Santa Teresa High School and Chaparral High School are required to complete eight (8) electives for a total of twenty-six (26) credits.

Graduating classes of 2013 and there after: must successfully complete the following requirements:

- 1. Four (4) credits in English
 - a. English 1 1 credit English 2 - 1 credit b.
- c. English 3 1 credit
- d. English 4 1 credit
- 2. Three (3) credits in Mathematics, at least one of which is equivalent to Algebra I or higher c. Algebra 2 a. Algebra 1 b. Geometry
 - d. Math Elective
- 3. Three (3) credits in Science, one of which must have a laboratory component a. Integrated Science 1 c. Integrated Biology 3 or Integrated Physics 3 or b. Integrated Chemistry 3
- Integrated Science 2
- 4. Four (4) credits in Social Sciences U.S. Governments/Economics - 1 credit a.
- c. World History/Geography 1 credit
- d. New Mexico History and Geography 1 credit
- United States History/Geography 1 credit One (1) credit in Physical Education 5.
 - One (1) in a career cluster course /Workplace Readiness/Foreign Language
- One (1) credit in an advanced college placement course/ honors course/dual credit course offered by a 7. college/distance learning course.

Additionally, students enrolled at Desert Pride Academy, Chaparral High School, Gadsden High School, and Santa Teresa High School are required to complete seven (7) electives for a total of twenty-six (26) credits.

For students enrolling or re-enrolling in the Gadsden Independent School District:

- 1. Credits shall be transferable with no loss of value between schools that are accredited.
- 2. Students transferring from a home school or private school to the district shall be placed at the grade level
- appropriate to the age of the student, or to the student's score on an achievement test administered according to the statewide or district testing programs.
- 3. Credits earned through correspondence or extension study may be accepted if such credits are from schools approved or accredited by the National Home Study Counsel, the State Board of Education, of the state in which they are located, or by a college or university which is regionally accredited for such purposes.
- 4. A final examination shall be administered to all students in all courses offered for credit.
- 5. A student cannot take the same course twice for credit.
- 6. Dual enrollment credit, both academic and vocational, may be earned simultaneously from both the public
- school district and the post-secondary institution(s). Dual enrollment requires an agreement between the two entities.
- A student shall receive a high school diploma if he/she has passed a state competency examination in the 7 subject areas of language arts, writing, reading, mathematics, science, and social studies for the graduating classes of 2010-2012.

- 8. Starting with the class of 2012, students will have to pass the New Mexico Standard-Based Assessment examination, or provide alternative demonstrations of competency using standards-based indicators to receive a high school diploma.
- 9. If a student exits from the school system at the end of grade twelve without having passed a state competency examination (Classes 2010-2011) or New Mexico Standard Based Assessment (Class 2012) or without having provided alternative demonstrations of competency using standards-based indicators (Class 2012), he/she shall receive a certificate of completion indicating the number of credits earned and the grade completed. If within five years after a student exits from the school system he/she takes and passes the state graduation examination, or provides alternative demonstrations of competency using standards-based indicators he/she may receive a high school diploma.
- 10. While enrolled in middle school, students who qualify may take designated courses offered at the High School level for credit and used to meet graduation requirements.
- 11. In order to participate in Chaparral High School, Gadsden High School, and Santa Teresa High School graduation ceremonies (graduating classes 2010-2011), students must have satisfactorily completed the required twenty-six (26) credits and passed all six (6) areas of the New Mexico High School Competency Exam. Starting with the graduating class of 2012, in order to participate in the graduating ceremonies, students must have satisfactorily completed 26 credits and passed the New Mexico Standard Based- Assessment, or provide alternative demonstrations of competency using standards-based indicators.
- 12. After July 1, 2010, the currently issued high school diploma will be replaced by the New Mexico diploma of excellence.
- 13. Chaparral High School, Gadsden High School and Santa Teresa High School will identify and recognize the top 10% of the graduation class as part of the graduation ceremony.

<u>Next-step plans</u>. Each student shall complete a next-step plan for each high school year pursuant to 22-13-1.1 NMSA 1978. A student shall develop and file an updated final next-step plan during the senior year and prior to graduation. The plan shall explain any differences from previous interim next-step plans, shall be filed with the principal of the student's high school and shall be signed by the student, the student's parent or guardian, and the student's guidance counselor or other school official charged with coursework planning for the student. For students with individualized education programs (IEPs), the transition plan substitutes for the next-step plan.

Class of 2013 and thereafter, a parent may submit written permission on the Next-Step plan, completed during the sophomore year, for his or her child to complete a lesser math unit than Algebra 2.

Special Education

For students with disabilities, the Individualized Educational Program (IEP) team is responsible for determining whether a student with disabilities has completed a planned program of study making him/her eligible to receive a diploma. Graduation plans must be part of all IEP's beginning with the 8th grade IEP.

Upon completion of a planned program of study the student will be awarded a diploma or, after July 1, 2010, a New Mexico diploma of excellence. A student may be awarded a diploma using any of the following programs of study:

- A <u>Standard program of study</u> is based upon meeting or surpassing all requirements for graduation based upon New Mexico Standards for Excellence with or without reasonable modification of delivery and assessment methods. In addition, a student shall pass all sections of the current state graduation examination(s) under standard administration or with state-approved accommodations, and shall meet all other standard graduation requirements of the district.
- 2. A career readiness program of study is based upon meeting the State Board of Education's Career Readiness Standards with Benchmarks as defined in the IEP with or without reasonable modifications of delivery and assessment methods. In addition, the student shall take the current state graduation examination(s) under standard administration or with state-approved accommodations, and achieve a level of competency (LOC) predetermined by the student's IEP team. The student shall earn at least the minimum number of credits required by the district for graduation through standard or alternative courses that address the employability and career development standards with benchmarks and performance standards, as determined by the IEP team. Course work shall include a minimum of four (4) credits of career development opportunities and learning experiences that may include any of the following: career readiness and vocational course work, work experience, community-based instruction, student service learning, job shadowing, mentoring or entrepreneurships related to the student's occupational choices.
- 3. An ability program of study was developed for students who have a significant cognitive, disability or severe mental health issues. The IEP goals and functional curriculum course work shall be based on the New Mexico standards with benchmarks and performance standards and employability and career development standards with benchmarks and performance standards. Students in this program of study shall earn the minimum number of credits *or* be provided equivalent educational opportunities required by the district, with course work individualized to meet the unique needs of the student through support of the IEP. In addition, a student shall take either the current state graduation examination(s) under standard administration or with state-approved accommodations, or the state-approved alternate assessment. The student shall achieve a level of competency pre-determined by the student's IEP team in the current graduation examination or the state-approved alternate assessment, and meet all other graduation requirements established by the IEP team.



The IEP team is responsible for determining whether the student has completed a planned program of study based on the student's strengths, interests, preferences, identified educational and functional needs and long-term educational or occupational goals, making the student eligible to receive either a diploma or a conditional certificate of transition. The district shall provide each student, who has an IEP and who graduates or reaches the maximum age for special education services, a summary of the student's academic achievement and functional needs and long-term educational; or occupational goals, making the student eligible to receive either a diploma or conditional certificate of transition. The district shall provide each student, who has an IEP and who graduates or reach maximum age for special education services, a summary the student's academic achievement and functional performance (SOP), which shall include recommendations on how to assist the student in meeting post-secondary goals.

Conditional certificate of transition.

A student who receives special education services may be granted a conditional certificate of transition (CCT) in the form of a continuing or transition IEP when:

- 1. The IEP team provides sufficient documentation and justification that the issuance of a conditional certificate of a transition for an individual student is warranted;
- 2. Prior to the student's projected graduation date, the IEP team provides prior written notice stating that the student will receive a conditional certificate of transition; The district ensures that a conditional certificate of transition is not a program of study and does not end the
- 3. student's right to FAPE.
- 4. The district ensures that a conditional certificate of transition entitles a student who has attended four years or more of high school to participate in graduation activities, and requires that the student continue receiving special education supports and services needed to obtain the high school diploma;
- The district ensures that, prior to receiving a conditional certificate of transition, the student has a continuing (C) 5. or transition (T) IEP:
- The student's continuing or transition IEP outlines measures, resources and specific responsibilities for both the 6. student and the district to ensure that the student receives a diploma.

A student who does not return to complete the program of study as outlined in the continuing or transition IEP will be considered as a dropout. A student who receives a conditional certificate of transition is eligible to continue receiving special education services until receipt of a diploma or until the end of the academic year in which the student becomes 22 years of age.

- Code of Federal Regulation 34 (34. CFR) Part 300 1.
- New Mexico Statutes 1978 annotated Chapters 22 and 22a 1998 replacement Chapter 22 article 2 8.3 2
- New Mexico Statutes 1978 annotated Chapters 22 and 22a 1998 replacement Chapter 22 article 2 -8.4 Section D 3

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- New Mexico Standards for Excellence 6 NMAC 6.30.2.10 Section 9 parts A & B, H & I 4.
- New Mexico State Regulations 90-2 Amendment 2 5.
- New Mexico State Regulations 90-2 Amendment A, D-1 6. 7.
- Title 6 ,Chapter 19, Part 7, 6.19.7.2 NMAC-N,1/30/09

Replaces Policy: IKF

POST SECONDARY PREPARATORY COURSES

Taking a college entrance exam and having a high grade point average will not guarantee student admission into a university. The student will also need to complete successfully a series of high school courses, which the universities believe will prepare them for university studies. In order to meet these requirements, it is **<u>RECOMMENDED</u>** that the student complete the following courses:

English	Four (4) Credits	English 1, 2, 3, and 4
Science	ience Four (4) Credits Subjects such as Integrated Science, Biology, Chemistry, Physics, and Human Anatomy/Physiology	
Mathematics	Four (4) Credits Algebra I, Algebra II, and Geometry; Trigonometry and Calculus are highly recommended for students going into engineering	
Social Sciences	s Four (4) Credits Principles of Democracy, United States History, World History, and New Mexico History	
Foreign Language Two (2) Credits A minimum of two years of the same foreign language will fulfill this requirement		
Fine Arts	Fine Arts One (1) Credit Courses from the following fields: art, music, theater arts	
Computer Technology	One (1) Credit	Course from Computer and Information Technology

College entrance requirements vary. See your counselor for the college in which you are interested and/or secure a catalog directly for the college. Materials are available in the Counseling Center to help students research information and decide on a university. (Note: Students may be denied admission to the university of their choice if they have not taken the recommended high school courses that meet their admissions policy. IT IS THE RESPONSIBILITY OF THE STUDENT AND HIS/HER PARENTS TO ENSURE THAT RECOMMENDED COURSES ARE COMPLETED.)

COURSE SELECTION

GUIDELINES

Courses will only be offered if requested by a minimum of 15 students. The Central Management Team (CMT) must approve exceptions.

- Students will enroll in eight classes for the year. Seniors' schedules will be modified to meet their specific needs.
 Students planning to complete graduation requirements in December (end of 1st semester) should contact their counselor by the end of the first grading period.
- 3) Schedule changes are only granted for the following reasons:
 - a) The student is misplaced in a class and does not have the necessary skills or prerequisites.
 - b) The student has taken the course before and successfully completed it.
 - c) A senior needs a required course for graduation.
 - d) The principal will be the final authority in approving all schedule changes. In order to enroll in a course, students must have been enrolled in and successfully completed the prerequisites for
- 4) In order to enroll in a course, students that course in the previous semesters.
- 5) Students will be enrolled in required courses appropriate to their grade classification and ability.
- 6) Students not present the first day of school will forfeit their class choices during pre-registration. If classes are a forfeit, students may select classes from those that still remain open.
- 7) The absentee policy starts the first day of each semester. Students absent 10 consecutive days from the beginning of the school year will be dropped as "no-shows." Parents must re-enroll students who have been dropped because of 10 consecutive days of absence. Previous selection of classes is forfeited; students may select classes that still remain open.
- 8) No class fees will be refunded after student has been enrolled in a course 10 or more days.
- 9) Students who enroll in Gadsden Secondary Schools after the first six (6) weeks may <u>not</u> receive credit for that semester, pending appeal to the principal/designee. The only exception is a student transferring from another school in which they were enrolled immediately prior to registration at Gadsden Secondary Schools.

COURSE FEE SCHEDULE

This is the fee schedule for the following courses:

All Business/Technology Courses	\$10.00
All Family and Consumer Sciences Courses	\$10.00
All Fine and Performing Arts Courses	\$10.00
All Drivers Education Courses	\$ 5.00
All Science Courses	\$10.00
All Career Pathway Courses	\$10.00

COURSES WHICH CAN BE TAKEN MORE THAN ONCE FOR CREDIT

The chart below identifies courses which can be taken more than once and defines the maximum allowable enrollment opportunities and awarding of credit. Students may not repeat any other courses for credit. NOTE: NO FRESHMEN ARE ALLOWED TO ENROLL IN MAJOR SPORTS; instead, they can only be enrolled in regular PE or Weight-Training.

Title	Times / Credits
Gymnastics 1	4
Gymnastics 2	4
Girls Volleyball	4
Girls Soccer	4
Girls Basketball	4
Softball	4
Boys Soccer	4
Boys Basketball	4
Football	4
Baseball	4
Fitn. Cond. Activ Athlete	4
Weight Training - Athlete	4
Athletic Training	4
Library/AVC Aide	2
Peer Counselor	4
School Orientation (Upward Bound)	4
Technology Systems (PREPS)	4
Health for Parenting Teens (GRADS)	4
Study Skills (DPA ONLY)	4
ProStart 1	2

Title	Times / Credits
Marching Band	4
Concert Band	4
Contemporary Band	4
Music-Mariachi 1	2
Music-Mariachi 2	2
Guitar	4
Piano	4
Music Theory	4
Chorus - Concert Choir	4
Vocal Ensemble	4
Art Portfolio	4
Expressive Movement	4
Journalism – Newspaper	4
Journalism - Yearbook	4
Mass Media - Production	4
Introduction to ROTC 1	2
Introduction to ROTC 2	2
Military ROTC 1	2
Military ROTC 2	2
ProStart 2	2

GRADES AND GPA

GRADING SYSTEM FOR SENIOR HIGH SCHOOL (A7/1/85; R8/27/96)

- 1) The teacher will assess all students and record all grades numerically. No grades will be represented by dots, dashes, stars or other non-numerical symbols.
- Grades are determined on the basis of total possible points for grading period; curving of grades is not permitted. 2) 3) Each session will have two terms and each term grade will be calculated numerically by averaging all grades.
- 4) A percentage grade will be derived from the numerical grade and will be assigned a letter equivalent based upon the
 - following scale: 90-100 А 8 В

30-89	В
70-79	С
50-69	D
50-59	F

5) Honors courses/AP courses/Dual Credit courses will be awarded as follows:

- 90-100 + 5 points
- 80-89 + 5 points 70-79 + 5 points
- 60-69 No extra points
- 50-59 No extra points

6) The session average for all year-long or A/B Block Courses will be determined by the following percentages:

- 40% Average of 1st and 2nd 9 weeks grades
 - 10% Fall semester Exam
 - 40% Average of 3^{rd} and 4^{th} 9 weeks grades
- 10% Spring Semester Exam
- 7) The session average for all <u>4 X 4 Block Courses</u> will be determined by the following percentages:
 - 40% 1st 9 Weeks 40% 2nd 9 Weeks

 - 20% Final Exam

8) Student progress will be assessed frequently and reported to the student. It is required that, at a minimum, students' parents will be notified of student progress at regular intervals prior to the end of a semester.

9) The weight of various assignments during the **semester** will be left to the discretion of the teacher. However, the weighing of assignments must be logical, fair, and described in the classroom procedures so the students are aware of the system being used.

10) Grades will reflect academic performance skill levels. Grades will absolutely not be used as disciplinary censure. GPA will be determined by the total grade points earned. Grade points will be figured based upon the credited courses.

CLASS RANKING REQUIREMENTS

(based on a numerical system, as indicated above)

In order to qualify for ranking in the top 10% of the graduating senior class, a student must complete their entire senior year (9 months) in the Gadsden Independent School District. To be eligible for such ranking, students who wish to graduate in less than four years, or those transferring from another district, **must also** complete their entire senior year in Gadsden.

HONORS COURSES

The courses listed below are those courses that have been determined to be honors courses, and as such they will be awarded honors points, given for letter grades of A, B, or C only. Entry into these courses is determined by prerequisites, invitation, and teacher/counselor recommendation.

Honors English 1	Honors Algebra 2	Honors Chemistry—Adv. Studies	Honors Spanish 4
Honors English 2	Honors Geometry	Honors Physics—Adv. Studies	Honors French 3
Honors English 3	Honors Trigonometry	Honors Anatomy/Physiology 1 & 2	Honors Government
Honors English 4	Honors Integr. Science 1 & 2	Honors Sports Physiology 2	Honors U.S. History
Honors Algebra 1	Honors Biology—Adv. Studies	Honors Spanish 3	Honors World History

ADVANCED PLACEMENT COURSES

The Advanced Placement Courses listed below are the courses that have been designed to meet the rigorous academic requirements of the Advanced Placement (AP) Program. The AP Program is a cooperative educational endeavor between secondary schools and colleges and universities. Students may elect to take the AP examination in each AP course they have successfully completed in order to demonstrate college-level achievement. Upon passing the exam, the student can receive college or university credit for the course. These courses will also be awarded points on a five-point scale when determining grade-point average.

AP Art	AP Physics	AP Statistics
AP Calculus AB	AP English Comp/Lit	AP French Language
AP Biology	AP Spanish Language	AP United States History
AP Chemistry	AP Spanish Literature	AP World History

AP courses do not substitute for required courses.

Dual Credit

What is Dual Credit? Dual Credit courses are college level courses offered by Dona Ana Community College. GISD student who enroll in Dual Credit courses have the opportunity to earn college credit and high school elective credits at the same time. Course topics cover a wide range of subjects and materials. Students enrolled in Dual Credit are subject to the rules, guidelines, and calendars of DACC.

Who is eligible for Dual Credit? Any high school student within the Gadsden Independent School District who has a 70% GPA, parent permission, and good attendance may be eligible for Dual Credit.

How to participate in Dual Credit: Student must take the COMPASS placement exam and pass 2 or more of the following:

Math = CCDR 114 N

•

- Reading = CCDR 105N (55)
- Writing =CCDE 110N (34)

Or achieve a composite score on the ACT of 15.

- Students must also complete the following:
 - Dual Credit Request Form
 - NMSU Application for Undergraduate Admission form
 - Transportation Agreement
 - Additional permission and/or agreement forms for individualized courses as set forth by DACC

Where are classes offered: Dual credit classes for Gadsden Independent School District Students are offered at the Gadsden and Sunland Park DACC branches.

When are Dual Credit courses offered: Dual Credit courses are offered each fall and spring semesters and additional courses may be available during the summer sessions. All courses follow the NMSU and DACC academic Calendar

Grades: Grades for Dual Credit Courses are based on the 5 point scale. Grades will be transmitted twice each semester (mid-term and final) from the DACC Dual Credit Director to the GISD Coordinator for Career Technical Education.

Transportation: GISD does provide some busing to the 2 DACC centers located within the Gadsden District. Students who hold a valid driver's license and have completed the Transportation Agreement are eligible to provide their own transportation to and from their Dual Credit Classes.

OTHER FORMS OF COURSEWORK

INDEPENDENT STUDY PROGRAM

This program is designed for those students wishing to take a course that could not be justified due to the small number of student requests, or for those students wishing to add a course of interest outside of the regular schedule of classes. 1. <u>Students will not be allowed to take any core subject required for graduation through the Independent</u>

- <u>Study course number</u>. The core subjects are listed on page 6 under Graduation Requirements, letters A-G.
- 2. All independent study courses must have approval from the school principal, counselor, and teacher of record.
- 3. The number of credits earned is contingent upon the number of hours the student is engaged in study.
- 4. The student must complete all Independent Study course work assigned and the teacher of record must submit grades for these students during the time that grades for all other courses are due.
- Each student must sign a contract of study that has been approved and signed by the school's teacher of record, counselor, and principal. The contract must include the following:
 - a. Course content should include 180 hours of engagement for one (1) credit.
 - b. Evaluation methods and method of grade determination must be specified.

CORRESPONDENCE, ONLINE, OR EXTENSION STUDY

Credits earned through correspondence, online, or extension study may be accepted if such credits are from schools approved or accredited by the National Home Study Council, the State Board of Education of the state in which they are located, or by a college or university that is regionally accredited for such purposes.

All correspondence, online, or extension study must have prior approval and verification of accreditation of the offering school, from the school counselor, and must have the principal's approval prior to correspondence or extension study registration.

DESERT PRIDE ACADEMY

Desert Pride Academy offers an educational environment that provides the flexibility and support needed for nontraditional students to complete their high school program. The academic focus is on the core subjects of language arts, mathematics, social studies, and science, in addition to a limited number of electives that allow for an individualized selfpaced program. The student population is composed of dropout recovery, those over-aged, and those referred for longterm suspension.

Criteria for Admission

- 1. Student must be 16 21 years of age.
- 2. Student must be at least one school year behind in their academic credits.
- Student must be recommended by the superintendent or high school principal, and/or have been recommended for long-term suspension, and/or have dropped out of school, and/or have been released from a correctional institution.
- 4. Students who meet the criteria for admission and are recommended by an I.E.P. committee may also be accepted for admission.
- 5. Students must complete an application, interview, and be approved by the Desert Pride Academy principal.
- 6. Students will be accepted for admission on a per-semester basis. Process for Admission
 - Student must meet the criteria for admission.
 - Student will be dropped from their permanent high school.
 - Student will enroll at Desert Pride Academy for one semester

Requirements for Continued Enrollment

- 1. Student must have a good attendance record.
- 2. Student must attain eighty percent mastery in each academic class.
- 3. Student must pass eighty percent of all academic classes attempted.
- 4. Student must demonstrate good behavior; show respect, and positive attitude.
- 5. Student must be approved by Desert Pride Academy (administration, teachers, and staff) to be accepted for subsequent semesters.



Curriculum

- 1. The student must be in attendance for a semester, and/or master ninety percent of the academic benchmarks per subject, to receive one academic credit per class.
- 2. The student will follow a self-paced curriculum individualized to his/her academic needs.
- The student, with the exception of graduating seniors, may earn a maximum of six credits per semester.
 The student will meet the state requirements for a high school diploma.

GATEWAY TO CAREERS

ONE-STOP CAREER CENTERS

Located at Chaparral High School, Gadsden High School, and Santa Teresa High School are the One-Stop Career Centers, designed to provide the following services to students and the community:

- Assist in the building of a career portfolio, including a resume.
- Provide career guidance, college planning, access to current job opportunities in the area and nationwide •
- Work permits issued for students under 16 (must have proof of social security number) •
- Resources, software, and computers available for resume writing, job search, interviewing skills, work ethics, and career and college Internet searches
- Career readiness assistance
- Information on current labor market and future job demands
- Referrals to local community service providers
- The One Stop Career Centers offer the following services to teachers:
 - Access to classroom activities related to career readiness standards
 - Assistance in facilitating resume writing, interviewing skills, job applications, career investigation and college/financial aid research
 - Staff development on a variety of topics, including financial aid, college research, career exploration, and more
 - Provide teachers with current labor market information and employment projections for the future

CLASS OF 2012 AND THEREAFTER

PLANNING FOR GRADUATION AND A CAREER: CHECKLIST FOR STUDENTS AND PARENTS

	PLANNING FOR GRADUATION AND A CAREER: CHECKLIST FOR STUDENTS AND PARENTS
FRE	SHMEN
	Pre-register as 8 th graders for High School after familiarizing yourself with graduation requirements and elective options.
	Create career pathway and four-year plan during freshman year.
	Explore post-secondary schools and financial aid options.
	Build career portfolio, including résumé.
SOF	HOMORE
	Register for courses by pathway
	Check progress and update four-year plan and career pathway.
	Explore post-secondary schools and financial aid options.
	Update career portfolio, including résumé.
JUN	IOR
	Register for courses by pathway
	Check progress and update four-year plan and career pathway.
	Take the PSAT if preparing for college (optional).
	Explore post-secondary schools and scholarship options.
	Take applicable college entrance exams, such as ACT and SAT.
	Consider taking the ASVAB for career planning.
	Attend College/Career Days
	Pass SBA for graduation requirements
	Update career portfolio, including résumé.
SEN	IIOR
	Register for courses by pathway
	Check progress and update four-year plan and career pathway.
	Pass SBA for graduation requirements
	Meet all course and credit requirements for graduation.
	Explore and finalize post-secondary schools and scholarship options.
	Take applicable college entrance exams, such as ACT and SAT.
	Consider taking the ASVAB for career planning.
	Attend College/Career Days
	Complete post-secondary school applications within deadlines.
	Complete scholarship applications within deadlines.
	Attend financial aid workshop and complete FASFA form in January (parents must have completed income tax return).
	Finalize career portfolio, including résumé.

CLASS OF 2010-2011
PLANNING FOR GRADUATION AND A CAREER: CHECKLIST FOR STUDENTS AND PARENTS
FRESHMEN
Pre-register as 8 th graders for High School after familiarizing yourself with graduation requirements and elective options.
Create career pathway and four-year plan during freshman year.
Explore post-secondary schools and financial aid options.
Build career portfolio, including résumé.
SOPHOMORE
Register for courses by pathway
Check progress and update four-year plan and career pathway.
Explore post-secondary schools and financial aid options.
Pass 6 portions of the NMHSCE
Update career portfolio, including résumé.
JUNIOR
Register for courses by pathway
Check progress and update four-year plan and career pathway.
Take the PSAT if preparing for college (optional).
Explore post-secondary schools and scholarship options.
Take applicable college entrance exams, such as ACT and SAT.
Consider taking the ASVAB for career planning.
Attend College/Career Days
Update career portfolio, including résumé.
SENIOR
Register for courses by pathway
Check progress and update four-year plan and career pathway.
Meet all course and credit requirements for graduation.
Explore and finalize post-secondary schools and scholarship options.
Take applicable college entrance exams, such as ACT and SAT.
Consider taking the ASVAB for career planning.
Attend College/Career Days
Complete post-secondary school applications within deadlines.
Complete scholarship applications within deadlines.
Attend financial aid workshop and complete FASFA form in January (parents must have completed income tax return).
Finalize career portfolio, including résumé.

NEXT STEP PLAN

Home Address: City, State, Parent/Guardian Phone Name: Phone STUDENT GOALS: 1. What are the student's long-term career interest goals? 9" 10" 12" 2. What academic goals does the student have? 9" 10" 11" 12" 3. What extra-curricular activities does the student participate in or plan to participate in? 9" 10" 11" 12" 3. What extra-curricular activities does the student participate in or plan to participate in? 9" 10" 11" 12" 3. What extra-curricular activities does the student participate in or plan to participate in? 9" 10" 11" 12" 4. What are the student's plans for post-secondary training and learning? 9" 10" 11" 12" 5. What are the student's personal and/or social goals? 9" 10" 12"	Student Name:		Student ID #
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Student Name:

Student ID #

What does the student need in order to prepare for desired post-school outcomes?

Student Needs9th Grade10th Grade11th Grade12th GradeAcademic Support and/or Study SkillsTutoringTutoringTutoringTutoringStudy GroupStudy GroupStudy GroupStudy GroupStudy GroupOtherOtherOtherOtherOtherExtracurricular ExperiencesStudent GovernmentStudent GovernmentStudent GovernmentStudent GovernmentExposure to Postsecondary Education and Career OptionsConcurrent EnrollmentConcurrent EnrollmentConcurrent EnrollmentConcurrent EnrollmentConcurrent EnrollmentFamily and/or Social SupportParent InvolvementParent InvolvementParent InvolvementParent InvolvementParent InvolvementParent InvolvementParent InvolvementParent InvolvementParent InvolvementFamily and/or Social SupportAssessment/TestingAssessment/TestingAssessment/TestingAssessment/Testing	
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Note: "No student shall be promoted from the ninth, tenth, or eleventh grade who has not developed and/or updated his or her interim next-steps plan within sixty days prior to the end of each school year."

Career Cluster:

PLAN OF STUDY CLASS OF 20_

Career Pathway:

		Credits		Credits		Credits		Credits
	9 th Grade	Earned	10 th Grade	Earned	11 th Grade	Earned	12 th Grade	Earned
	English 1		English 2		English 3		English 4	
	Algebra 1		Geometry		Algebra 2		Career Cluster Elective *Additional Math	
F	Integrated Science 1		Integrated Science 2		Integrated Science 3: Biology, Chemistry or Physics		Career Cluster Elective	
School			hy	World History/Geography		NM History/Geography		
				Business Education Course or 3 rd Level of a Foreign Language		Career Cluster Elective		
High	Physical/Health Education I		Career Cluster Electiv	re	Career Cluster Elective		Career Cluster Elective	
	Career Cluster Elective		Career Cluster Electiv	re	Career Cluster Elective		Career Cluster Elective	
	Career Cluster Elective		Career Cluster Electiv	re	Career Cluster Elective		Career Cluster Elective	
	Course Substitution(s)		Course Substitution(s))	Course Substitution(s)		Course Substitution(s)	
	Beginning with freshman class of 2008-2009: In addition to required courses, SBA (Student Based Assessment) must be passed in order to graduate. Beginning with freshmen class of 2009-2010: 4 credits in Math and an AP Course, Honors Course, Dual Credit Course, or an Online Course will be required to graduate.						I	
ar	Communi			· · · · · ·	College/University	Military, Job, or Other		•
Post- Secondar y								

Parent/Guardian Signature	Date	Student Signature	Date	Advisor Signature	Date
Parent/Guardian Signature	Date	Student Signature	Date	Advisor Signature	Date
Parent/Guardian Signature	Date	Student Signature	Date	Advisor Signature	Date
Parent/Guardian Signature	Date	Student Signature	Date	Advisor Signature	Date

Post High School/Final Next Step Plan Después de escuela preparatoria/El plan final del Paso Siguiente

Student Name: Nombre del estudiante		Student ID # # de identificación
Home Address: Direction	City, State, Zip: Ciudad, Estado, Zona F	
Parent/Guardian Name: Nombre del padre/Tutor	Phone Number: Número de teléfono	Projected Graduation Date: Fecha de graduación proyectada:
What is the student's long-term career interest? ¿Cuál	es el interés del estudiant	e en su carrera de largo plazo?
What does the student plan to do after high school? ¿ Check appropriate box	Write a nam in the space	rative (descriptive statement) about your plans e provided. Escribe un narrativo (una oración
Marca la caja apropiada. Bachelor Degree Program	descriptiva)	explicando sus planes en el espacio de abajo.
Programa Bachiller Public College/University (name) Colegio/Universidad Público (nombre) Private College/University (name) Colegio/Universidad Privado (nombre) Associate Degree Program Programa de Curso Asociado Trade Certificate Program Programa de certificación técnico Military Service (branch) Servicio militar Work/Study/Apprenticeship Program Programa de trabajar/estudiar/aprendizaje On-the-Job Training Entrenamiento en el trabajo Work Trabajo Other Otro		
How does the student intend to accomplish these goo	Ils? ¿Cómo espera el estu	udiante cumplir sus metas?

Final Next Step Plan Signatures (prior to high school graduation)/ Firmas del plan final del Paso Siguiente (antes de la graduación de la escuela preparatoria)

Student:	Date:	Comments/Comentarios:
Estudiante	Fecha:	
Parent/Guardian:	Date:	
Padre/Tutor:	Fecha:	
Counselor or other school official:	Date:	
Consejero u otro oficial de la escuela:	Fecha:	
Other:	Date:	
Otro:	Fecha:	

Ticulture, Food & Natural Resources	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.
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 Specialist
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 Technologist • 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	Machine Operators • Electronics Systems Technicians • Agricultural Engineers • Agricultural Extension
Systems	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
	mic Foundations ⊡Communications ⊡Problem Solving and Critical Thinking

Information Technology Applications Systems Safety, Health and Environmental Deadership and Teamwork Dethics and Legal Responsibilities Demployability and Career Development Dechnical Skills

Construction	Careers in designing, planning, managing, building and maintaining the built environment.
Pathways	Sample Career Specialties/Occupations
Design/ Pre-Construction	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 •
Construction	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 • Construction Inspector • Subcontractor • Scheduler • Education and Training Director/Coordinator • Safety Director • Construction Inspector • Subcontractor • Preservationist • Service Contractor • Field Supervisor • Specialty Trades Subcontractor • Mason • Construction Craft Labore • 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 • Terrazo Worker and Finisher

Maintenance/Operations	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 • 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 • Restoration Technician • Wastewater Maintenance • Technician • Highway Maintenance Worker Cubter Knowledge and Skills	
Acad	demic Foundations Communications Problem Solving and Critical Thinking	

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

A/V Technology Communications	Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism.
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
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 Broad Casting	Audio/Video Operations Control Room Technician
Telecommunications Technologies	Telecommunication Technicians • Telecommunication Equipment • Cable, Line Repairers/ Technologies Installers • Telecommunication Computer Programmers • Systems Analysts
	Cluster Knowledge and Skills
□Information Techr	mic Foundations □Communications □Problem Solving and Critical Thinking lology Applications □ Systems □Safety, Health and Environmental □ Leadership and and Legal Responsibilities □ Employability and Career Development □ Technical Skills

Administration	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 ·
Business Financial Management & Accounting	Management Trainees Accountants · Accounting Clerk · Accounting Supervisor · Adjuster · Adjustment Clerk · Assistant Treasurer · Management 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 · OSHIA/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 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	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 Assistant ·
	Administrative Assistant · Executive Assistant · Office Manager · Administrative Support · Medial Front Office
Administrative & Information Support	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	

the ducation &	Planning, managing and providing education and training services, and related learning support services.
Pathways	Sample Career Specialties/Occupations
Administration and Administrative	🗆 Superintendents, Principals, Administrators 🗆 Supervisors and Instructional And Coordinators 🗆 Education
Support	Researchers, Test Measurement Specialists 🗆 College Presidents, Deans 🗆 Curriculum Developers 🗆 Instructional
	Media Designers
Professional Support Services	Developmental, Social Social Workers Parent Educators Counselors Speech-
	Language Pathologists and Audiologists
	Preschool, Kindergarten Teachers, Aids 🗆 Elementary Teachers, Aids 🗆 Secondary Teachers, Aids 🗠 Special
Teaching/Training	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	
□ 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

ance	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	Accountants	
Management	Auditor • Economists • Tax Examiners • Collectors • Revenue Agent	
	Credit Analyst Loan Officers Bill and Account Collectors Tellers Loan Processors Customer Service Reps Data Processors Accounting Internal Auditors Compliance	
Banking & Related Services	Officers • Title Researchers	
Services	possession Agents Network Services Operations Managers Debt Counselors	
	Claims Agents, Examiners, and Investigators Claims Clerks Insurance Appraisers	
Insurance Services	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		

Administration	Executing governmental functions to include Governance; National Security; Foreign Ser- vice; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels
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
Public Management and Administration	City Manager
	Cluster Knowledge and Skills
□Information Techn	mic Foundations □Communications □Problem Solving and Critical Thinking lology Applications □ Systems □Safety, Health and Environmental □ Leadership and and Legal Responsibilities □ Employability and Career Development □ Technical Skills

Realth Science	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 • Pharmacsit/Pharmacy Tech • Physical Therapist / Assistant • Physican (MD/DO) • Physician's Assistant • Psychologist • Recreation Therapist • Registered Nurse • Respiratory Therapist • Social Worker • Speech Language Pathologist • Surgical Technician •
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 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	
□Information Tech	mic Foundations Communications Problem Solving and Critical Thinking nology Applications Systems Safety, Health and Environmental Leadership and and Legal Responsibilities Employability and Career Development Dechnical Skills

4	
Spitality & Tourism	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
Restaurants and Food/Beverage Services	□ 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	Front Office Manager Executive Housekeeper Director of Sales & Marketing Chief Engineer Director of Human Resources Resional Manager Director of Operations General Manager Resional Manager Quality Assurance Manager Corporate Management Communications Supervisor Resional Manager Supervisor Captain Shift Supervisor Sales Professional Night Auditor Front Desk Employee Valet Attendant Dor Attendant Dor Attendant Dor Attendant House Person Maintenance Worker Van Driver
Travel & Tourism	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	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 & Safety 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	
□ Information T	cademic Foundations Communications Problem Solving and Critical Thinking "echnology Applications Systems Safety, Health and Environmental Leadership and hics and Legal Responsibilities Employability and Career Development Technical Skills

Services	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 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 □ Employment Counselors □ Career Counselors □ Vocational Rehabilitation Ser vice 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 Barbers Cosmetologists, Hairdressers, & Hairstylists Shampooers, Nail Technicians, Manicurists Pedicurists
Personal Care Services	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 Credit Counselors Consumer Affairs Officers Consumer Advocates Certified Financial Planners Insurance Representatives Financial Advisors Investment

	Brokers Employee Benefits Representatives Hospital Patient Accounts Representatives Customer Service
Consumer Services	Representatives Customer Re-
Consumer Services	search 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
	mic Foundations □Communications □Problem Solving and Critical Thinking nology Applications □ Systems □Safety, Health and Environmental □ Leadership and
	and Legal Responsibilities Employability and Career Development Technical Skills
	Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional
niormation	Careers Related to the Design, Development, Support and Management of Hardware, Software,
Technology	Multimedia, and Systems Integration Services
Technology	
Pathways	Sample Career Specialties/Occupations
Fathways	Network Design and Administration:
	Communications Analyst Data Communications Analyst Information Systems Administrator
Network Systems	Information Systems Operator
	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
	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
Information Support and Services	Senior Database Administrator 🗆 Systems Analyst
	Systems: Administrator Analyst Tester
	Technical Writer: Desktop Publisher Document Specialist Documentation Specialist
	Editor
	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 Deroduct Support Engineer Deales Support Technician Systems Analyst
	Technical: Account Manager Support Engineer Support Representative Testing Engineer 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
	Digital Media: 2D/3D Artist Animator Audio/Video Engineer Designer Media Spe-
Interactive Media	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
	Development and Administration: web: Administrator Architect Designer Page Developer Producer Site Developer Specialist
	Applications: Analyst Engineer Business Analyst Computer Engineer Data Modeler
Programming and Software	Operating System: Designer/Engineer Programmer Analyst Program Manager Pro-
Development	grammer Programmer/Analyst Project Lead
Pmone	Software Applications: Specialist Architect Design Engineer Development Engineer
	Engineer QA Specialist Tester
	Systems: Analyst Administrator Test Engineer Tester
	Cluster Knowledge and Skills
	mic Foundations □Communications □Problem Solving and Critical Thinking
	nology Applications Systems Safety, Health and Environmental Leadership and Skills
	and Legal Responsibilities Employability and Career Development Technical Skills

	Planning, managing, and providing legal, public safety, protective
971 av, Public Safety, Corrections	services and homeland security, including professional and technical
& Security	support services
Pathways	Sample Career Specialties/Occupation
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 Vouth 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 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 Sale 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 (Instal/maintain) Investigative Assistant (private sector) Security Systems Technician (Instal/maintain) Investigative Assistant Corporate Investigative Assistant 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 Officer (armed) Computer Security Specialist Computer Forensics Examiner Security Security Officer (armed) Computer Security Specialist Computer Forensics Examiner Executive Protection Specialist Gaming Surveillance Specialist Information Security 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
nufacturing	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 Heterical Installers and Repairers Electromechanical Equipment Assemblers Extruding and Drawing Machine Setters/Set-Up Operators Hand Packers and Packagers Hoist and Winch Operators Instrument Makers Hand Packers and Backagers Hoist and Winch Operators Instrument Makers Hand Packers and Backagers Hoist and Winch Operators Instrument Makers Hand Packers and Backagers Hoist and Winch Operators Instrument Makers Hand Packers and Backagers Hoist and Winch Operators Managers, Supervisors Medical Appliance Makers Milling Machine Setters, Set-Up Operators Managers, Supervisors Needical Appliance Makers Medical Appliance Medical Medical
Manufacturing	Design Engineers Electrical and Electronic Technicians and Technologists Electronics Engineers
Production	Engineering and Related Technicians and Technologists Engineering Technicians Industrial Engineers Labor Relations Managers Manufacturing Engineers Manufacturing Technicians Power Generating and
Process	Reactor Plant Operators \Box Precision Inspectors, Testers, and Graders \Box Process Improvement Technicians \Box
Development Maintenance, Installation & Repair	Production Managers Purchasing Agents Supervisors Biomedical Equipment Technicians Boilermakers Communication System Installers/Repairers Computer Installers/Repairers Computer Maintenance Technicians Electrical Equipment Installers/Repairers Installers/Repairers Facility Electricians Industrial Electronic Installers/Repairers Industrial Machinery Mechanics Industrial Maintenance Electricians Industrial Facilities Managers Industrial Machinery Mechanics Industrial Electronic Installers/ Repairers Industrial Maintenance Mechanics Industrial Maintenance Technicians Industrial Maintenance Centrolicans Industrial Maintenance Mechanics Industrial Designers Laser Systems Technicians Maintenance Repairers Major Appliance Repairers Meter Installers/Repairers Millwrights Plumbers, Pipe Fitters and Steam Fitters Security System Installers/
Quality	Calibration Technicians Inspectors Lab Technicians Quality Engineers SPC Coordinators Quality Engineers SPC Coordinators
Assurance	-common = Quarty Engineers = or e coordinators

Logistics & Inventory Control	Communications, Transportation and Utilities Managers □ Dispatchers □ Freight, Stock, andMaterial 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 Engineers Environmental Specialists Health and Safety Representatives Safety Coordinators Safety Engineers Safety Team Leaders Safety Technicians
Environmental	
Assurance 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 Cechnical Skills

arketing, Sales & Service	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) Kepresentatives
Professional Sales and Marketing	Inbound Call Managers Channel Sales Managers Regional Sales Managers Channel Sales Managers Regional Sales Managers Channel Sales Specialists Regional Sales Managers National Account Managers Account Executives Sales Engineers Sales Executives Technical Sales Specialists Retail Sales Specialists Sales Representatives Industrial Sales Representatives Manufacturer's Representatives Sales Specialists Regional Sales Sales Channel Sales Channel Sales Representatives Sales Channel
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 Associ ates Frequency Marketing Specialists Knowledge Management Specialists Interviewers Customer Service Representatives
Distribution and Logistics	Warehouse Managers Atterials 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
□Information Techr	mic Foundations □Communications □Problem Solving and Critical Thinking nology Applications □ Systems □Safety, Health and Environmental □ Leadership and and Legal Responsibilities □ Employability and Career Development □ Technical Skills

Stence, Technology, Engineering & Mathematics	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
Engineering and Technology	Aerospace Engineer Aeronautical Engineer Agricultural Engineer Agricultural Technician Application Engineer Chemical Engineer Automotive Engineer Biomedical Engineer Computer Engineer Chemical Engineer Computer Programmer Computer Science Technician Computer Software Engineer Construction Engineer Consultant Development Engineer Broineer Broineer Bectrician Computer Software Engineer Electrician Electronics Technician Development Engineer Broineer Bectrician Electronics Technician Development Engineer Bectrician Electronics Technician Development Hazardous Waste Engineer Hazardous Waste Enchnician Fire Protection Engineer Hazardous Waste Engineer Hazardous Waste Engineer Hazardous Waste Engineer Hazardous Waste Engineer Manufacturing Processes Engineer Manufacturing Engineer Materials Engineer Naval Engineer Network Technician Engineer Development Development Macardus Petroleum Engineer Naval Engineer Naval Engineer Network Technician Coean Engineer Operations Research Engineer Packaging Engineer Poesystems Petroleum Engineer Project manager Prototype Engineer Reductive Development Software Engineer Prototype Engineer Software Engineer Softwa
Science and Math	Telecommunications Engineer Textile Engineer Transportation Engineer Analytical Chemist Anthropologist Applied mathematician Archeologist Astronomer Astrophysicist Atmospheric scientist Biologist Botanist CAD operator Cartographer Chemist Communications technologist Conservation scientist Cosmologist Cryptographer Crystallographer Demographer Dyc chemist Ecologist Economist Electron- microscopist Environmental scientist Expert systems scientist Geneticist Geologist Laboratory Technician Mammalogist Marine scientist Materials analyst Materialsscientist Mathematician Mathematics Metallurgist Meteorologist Microbial Physiologist Mycologist Nanobiologist Nuclear chemists Nuclear technician Numerical analyst Nutritionist Oceanographer Organic chemist Protein scientist Protozoologist Quality-control scientist Radio chemist Research Chemist Research Technician Science Teacher Lab centicial Scientific visualization / graphics expe
Cluster Knowledge and Skills	
Information Tech	mic Foundations Communications Problem Solving and Critical Thinking nology Applications Systems Safety, Health and Environmental Leadership and and Legal Responsibilities Employability and Career Development Technical Skills

ransportation, Distribution & Logistics	Planning, management, and movement of people, materials, and goods by road, pipeline, ai 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 Operations	Air/Space Transportation: Transportation managers—air □ Airplane pilots/copilots □ Commercial pilots □ Flight engineers □ Flight attendants □ Dispatchers-air □ Traffic managers □ Airtraffic controllers □ Aircraft cargo handling supervisors □ Airfield operations specialists □ Other airlines operations and support jobs Rail Transportation: Transportation managersrail □ Dispatchers-rail □ Traffic managers □ Locomotive engineers, □ Locomotive firers □ Rail yard conductors and yard masters □ Railyard engineers, dinkey operators, and hostlers □ Other railyard and terminal operations and support jobs Water Transportation: Transportation managerswater * □ Dispatcherswater □ Traffic managers □ Captains □ Mates □ Pilots of water vessels □ Sailors ar marine oilers □ Able seamen □ Ordinary seamen □ Ship and boat captains □ Ship engineers □ Motrobact operators □ Bridge and lock tenders □ Other Other railyard on terminal operations and support jobs Rail ransportation: Transportation managerswater * Dispatchers-mater □ Traffic managers □ Captains □ Mates □ Pilots of water vessels □ Sailors ar marine oilers □ Able seamen □ Ordinary seamen □ Ship and boat captains □ Ship engineers □ Motorboat operators □ Bridge and lock tenders □ Other Other ransportation: Transportation managers □ Truck drivers-heavy □ Truck drivers-ransot and support jobs drivers-stractor-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 Transit ≥ Dispatchers-transit and intercity □ Subway and
	streetcar operators Other terminal operations and support jobs
Logistics Planning	Logisticians Logistics managers Logistics Engineers Logistics analysts Logistics
Services Warehousing and Distribution Center Operations	Consultants and Management International logistics 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 super- visors/managers of transportation and material-moving machine and vehicle operators Laborers an freight, stock and material movers, hand Car, truck and ship loaders Packers and packagers- hand Other packaging/packing/material handling and moving jobs
Facility and Mobile Equipment Maintenance	Facility: Facility maintenance managers and engineers □ Industrial equipment mechanics Industrial electricians, □ Electrical/electronic technicians □ Other facility/terminal maintenance jobs Mobile Equipment: Mobile equipment maintenance managers □ Electrical and electronic installers and repairers—transportation equipment □ Mobile heavy equipment mechanics Air/Space—Aerospace engineering and operations technicians □ Aircraft mechanics and service technicians □ Aircraft mechanics □ Aircraft negine specialists Aircraft body and bonded structure repairers □ Avionics technicians. Water—Motorboat mechanics □ Ship mechanics and repairers □ Signal and track switch repairers □ Rail Coc-motive and cody repairers Rail—Rail car repairers □ Signal and track switch repairers □ Rail loco-motive and repairers Rail—Rail car nepairers □ Signal and track switch repairers □ Rail loco-motive and repairers Rail—Rail car nepairers □ Signal and track switch repairers □ Rail loco-motive and repairers □ Automotive body and related repairers □ Automotive glass installers and repairers □ Automotive service technicians □ and mechanics □ Automotive glass installers Automotive specialists □ bus and truck mechanics and diesel engine specialists □ Motorcycle mechanics □ Bicycle repairers □ Tire repairers and changers
Transportation,	Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail
Distribution & Logistics	and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance
Transportation	General—IntermodalUrban and regional planners Civil engineers Engineering technicians
Systems/ Infrastructure	Surveying and mapping technicians Government service executives Environmental compliance inspectors
Planning,	Air/Space—Air traffic controllers Aviation inspectors Road—Traffic engineers Traffic
Management, and Regulation	technicians Motor vehicle inspectors Freight inspectors,Rail—Railroad inspectors Water— Marine cargo inspectors Vessel traffic control specialists Transit—Public transportation inspecto OtherOther government agency managers Regulators Inspectors, other federal/state/local transportation agency jobs
Health, Safety and Environmental	Health and safety managers Industrial health and safety engineers Environmental science and protection technicians Environmental managers ar
Management	engineers Environmental compliance inspectors * Safety analysts
Sales and Service	Marketing managers, Sales managers Sales representatives—transportation/logistics service: 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
	Cluster Knowledge and Skills
	unications □Problem Solving and Critical Thinking□Information Technology Applications □ Systems ntal □ Leadership and Teamwork □ Ethics and Legal Responsibilities □ Employability and Career