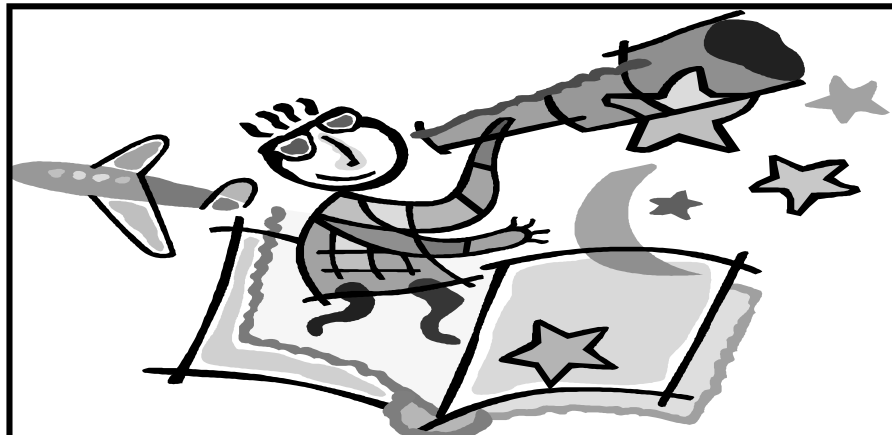


**A Guide to  
Career Clusters and  
Pathways**



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

**Job Connections  
And  
Course Descriptions**



**Ronald Haugen**  
Superintendent  
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**GADSDEN INDEPENDENT SCHOOL DISTRICT  
PRE-REGISTRATION INFORMATION**

Dear Parents,

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

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

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

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

Sincerely,

Ronald Haugen,  
Superintendent

**GADSDEN INDEPENDENT SCHOOL DISTRICT  
HIGH SCHOOL PRE-REGISTRATION HANDBOOK**

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## 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
- ACT/Compass:** An entrance exam for the Dona Ana Community College and for qualification for courses articulated with DACC.

### **Testing Calendar**

- PSAT:** October
- NMHSCE:** November (Grade 12 Only), January-February (Grades 10, 11, 12)
- NMSBA:** March (Grade 9 & 11)
- PLAN:** (Starting in 2009) 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 **15 credits**.
  - b. The students may transfer half-credits if earned under a semester system.
  - c. Grade conversion: Numerical grades based on a scale of 10 are converted into percentages / letter grades as follows:

$$10 = 100 = A+$$

$$9 = 90 = A$$

$$8 = 80 = B$$

$$7 = 70 = C$$

$$6 = 60 = D$$

$$0-5 = 50 = F \quad \text{(No Credit Allowed)}$$

(Numerical grades with decimals **are not** to be rounded off.  
A 7.9 is still 79, which equals a C)

- 2) Student enrolling with transcripts from countries with dissimilar systems will be evaluated on an individual basis.
- 3) **Foreign exchange students may only be classified as 11<sup>th</sup> grade students and are not eligible to graduate from Gadsden Independent School District.**
- 4) **Persons who have successfully completed the equivalent of U.S. high school in their country of origin are NOT 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 reclassified in January as seniors.
- Seniors need 28 credits to graduate. \*\* (See page 6)

### **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:

- English 1
- Algebra 1
- PREPS
- General Computer Applications
- Spanish 1 & 2 equals 1 Foreign Language Credit

### Qualifying Steps for Placement into Various Courses

To be eligible for placement into English 1 and Algebra 1, students must meet the following eligibility criteria:

- Step 1: Students qualify automatically if their performance on the New Mexico Standards-based Assessment (NMSBA) receives a rating of Advanced in Language Arts and/or Mathematics.
- Step 2: Students whose performance on the New Mexico Standards-based Assessment (NMSBA) receives a rating 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 English 1 and/or Algebra 1 will be awarded as follows:

1. Students earning 80-100% in English 1 and/or Algebra 1 as 8<sup>th</sup>-grade students are eligible for Honors English 2 and/or Honors Geometry.
2. Students earning 60-79% in English 1 and/or Algebra 1 as 8<sup>th</sup>-grade students will be placed in English 2 and/or Geometry.

In order to receive High School elective credit for General Computer Applications and Spanish for Native Speakers 3, students must have passed with a 60% or better for both semesters.

**STUDENTS MAY NOT 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

**For the graduating classes of 2007-2008**, successful completion of a minimum of twenty-eight (28) credits in grades nine through twelve (9-12) will be required for graduation. These credits\* will be as follows:

- A. Four (4) credits in English
- B. Three (3) credits in Mathematics
- C. Three (3) credits in Science, one of which will have a laboratory component
- D. Three (3) credits in Social Sciences
  - a. Principles of Democracy (American Government/Economics)—1 credit
  - b. United States History/Geography—1 credit
  - c. World History/Geography—1 credit
- E. One (1) credit in Physical Education/Health
- F. One (1) credit in Communication Skills
- G. Two (2) credits in Foreign Language
- H. Eleven (11) elective credits

**Starting with the graduating classes of 2009**, successful completion of a minimum of twenty-eight (28) credits in grades nine through twelve (9-12) will be required for graduation. These credits\* will be as follows:

- A. Four (4) credits in English
- B. Three (3) credits in Mathematics
- C. Three (3) credits in Science, one of which will have a laboratory component
- D. Four (4) credits in Social Sciences
  - a. Principles of Democracy (American Government/Economics)—1 credit
  - b. New Mexico History—1 credit
  - c. United States History/Geography—1 credit
  - d. World History/Geography—1 credit
- E. One (1) credit in Physical Education/Health
- F. One (1) credit in Communication Skills/Business Education/Foreign Language Level 3
- G. Two (2) credits in Foreign Language
- H. Ten (10) elective credits

*\*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 credits (classes of 2007-2008) or 24 credits (from class of 2009 on) including the required courses.*

**NO STUDENT SHALL RECEIVE A HIGH SCHOOL DIPLOMA WHO HAS NOT PASSED THE NEW MEXICO HIGH SCHOOL COMPETENCY EXAM (NMHSCE)\*\*** in the subject areas of language arts, reading, composition, math, science, and social science. If a student exits from the school system at the end of grade twelve without having passed the New Mexico High School Competency Exam (NMHSCE), s/he will receive an appropriate certificate indicating the number of credits earned and the grade completed. Students who do not pass all sections of the NMHSCE and fulfill all of the graduation requirements (28 credits) cannot participate in graduation ceremonies.

*\*\*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.*

## 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 **RECOMMENDED** that the student complete the following courses:

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

- 1) Students will enroll in eight classes for the year. Seniors' schedules will be modified to meet their specific needs.
- 2) 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.**
- 4) In order to enroll in a course, students must have been enrolled in and successfully completed the prerequisites for 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 **not** 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:

Business/Technology	\$10.00
Consumer/Homemaking Education	\$10.00
Fine and Performing Arts	\$10.00
Drivers Education	\$ 5.00
Science	\$10.00
Career Pathway	\$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.
- 2) Grades are determined on the basis of total possible points for grading period; curving of grades is not permitted.
- 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	A
80-89	B
70-79	C
60-69	D
50-59	F
- 5) The session average for all **year-long** or **A/B Block Courses** will be determined by the following percentages:
 

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

40%	- 1 <sup>st</sup> 9 Weeks
40%	- 2 <sup>nd</sup> 9 Weeks
20%	- Final Exam
- 7) Student progress will be assessed frequently and reported to the student. It is required that, at a minimum, students' progress will be assessed one time each week and recorded in the grade book.
- 8) 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.
- 9) Grades will reflect academic performance skill levels. Grades will absolutely not be used as disciplinary censure.



10) Grade point calculations will be based on the following scale:

Graduating Classes 2007-2008:	A = 4.0 B = 3.0 C = 2.0 D = 1.0 F = 0	Graduating Classes from 2009 on:	90-100 equivalent to A 80-89 equivalent to B 70-79 equivalent to C 60-69 equivalent to D 50-59 equivalent to F
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11) Honors courses/AP courses will be awarded as follows:

Graduating Classes 2007-2008:	A = 5.0 B = 4.0 C = 3.0 D = 1.0 F = 0	Graduating Classes from 2009 on:	90-100 + 5 points 90-99 + 5 points 80-89 + 5 points 60-69 No extra points 50-59 No extra points
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***GPA will be determined by the total grade points earned. Grade points will be figured based upon the credited courses.***

### CLASS RANKING REQUIREMENTS

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

### 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 English
AP Calculus AB	AP Spanish Language
AP Biology	AP French Language
AP Chemistry	AP United States History
AP Physics	AP World History

**AP courses do not substitute for required courses.**

## 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. **Students will not be allowed to take any core subject required for graduation through Independent Study.**  
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.
5. 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 OR EXTENSION STUDY**

Credits earned through correspondence 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 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.

### **THE DESERT PRIDE ACADEMY**

The Desert Pride Academy offers an educational environment that provides the flexibility and support needed for non-traditional 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 self-paced program. The student population is composed of dropout recovery, those over-aged, and those referred for long-term 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.
3. 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**

1. Student must meet the criteria for admission.
2. Student will be dropped from their permanent high school.
3. 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 the 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.
3. The student, with the exception of graduating seniors, may earn a maximum of six credits per semester.
4. 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

## COMMUNITY COLLEGE ARTICULATION

Gadsden ISD and Dona Ana Community College (DACC) provide an opportunity for juniors and seniors who qualify, to attend courses at Dona Ana Community College, Gadsden Educational Center, and Sunland Park Educational Center. Students take courses in a career-technical program of their choice that will apply toward their high school credits and toward a degree or certification at DABCC and/or NMSU.

Courses at DACC are held Monday through Friday in the morning. Buses take students from their high school to the DACC branch closest to their school. Books and tuition are paid for by the Gadsden Independent School District as long as the student is enrolled in one of the high schools. Students may also drive their own vehicles to and from DACC branches, **as long as a Transportation Agreement has been signed with the District.**

Any interested students must see their counselors and meet the following requirements:

1. 2.0 GPA,
2. Good Attendance Record
3. Parent Permission
4. Passing score on the ACT/COMPASS Assessment
5. Willingness to meet the challenges offered by attending both high school and community college at the same time

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

**FRESHMEN**

	Pre-register as 8 <sup>th</sup> 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.
	Take/pass New Mexico High School Competency Exam
	Explore post-secondary schools and financial aid options.
	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.
	<b>Pass all sections of the New Mexico High School Competency Exam</b>
	<b>Meet all course and credit requirements for graduation.</b>
	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**

<b>Student Name:</b> _____	<b>Student ID #</b> _____
<b>Home Address:</b> _____	<b>City, State, Zip:</b> _____
<b>Parent/Guardian Name:</b> _____	<b>Phone Number:</b> _____ <b>Projected Graduation Date:</b> _____

**STUDENT GOALS:**

1. What are the student's long-term career interest goals?

9<sup>th</sup> \_\_\_\_\_

10<sup>th</sup> \_\_\_\_\_

11<sup>th</sup> \_\_\_\_\_

12<sup>th</sup> \_\_\_\_\_

2. What academic goals does the student have?

9<sup>th</sup> \_\_\_\_\_

10<sup>th</sup> \_\_\_\_\_

11<sup>th</sup> \_\_\_\_\_

12<sup>th</sup> \_\_\_\_\_

3. What extra-curricular activities does the student participate in or plan to participate in?

9<sup>th</sup> \_\_\_\_\_

10<sup>th</sup> \_\_\_\_\_

11<sup>th</sup> \_\_\_\_\_

12<sup>th</sup> \_\_\_\_\_

4. What are the student's plans for post-secondary training and learning?

9<sup>th</sup> \_\_\_\_\_

10<sup>th</sup> \_\_\_\_\_

11<sup>th</sup> \_\_\_\_\_

12<sup>th</sup> \_\_\_\_\_

5. What are the student's personal and/or social goals?

9<sup>th</sup> \_\_\_\_\_

10<sup>th</sup> \_\_\_\_\_

11<sup>th</sup> \_\_\_\_\_

12<sup>th</sup> \_\_\_\_\_

**NEXT STEP: PLANNING AND LINKAGE**

Student Name: \_\_\_\_\_ Student ID # \_\_\_\_\_

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

<i>Student Needs</i>	<i>Activities and Strategies</i>				
	<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>	
<b>Academic Support and/or Study Skills</b>	Tutoring	Tutoring	Tutoring	Tutoring	
	Study Group	Study Group	Study Group	Study Group	
	Other	Other	Other	Other	
<b>Extracurricular Experiences</b>	Student Government	Student Government	Student Government	Student Government	
	Athletics	Athletics	Athletics	Athletics	
	Other	Other	Other	Other	
<b>Exposure to Postsecondary Education and Career Options</b>	Concurrent Enrollment	Concurrent Enrollment	Concurrent Enrollment	Concurrent Enrollment	
	College Tours	College Tours	College Tours	College Tours	
	Job Shadowing	Job Shadowing	Job Shadowing	Job Shadowing	
	Other	Other	Other	Other	
<b>Family and/or Social Support</b>	Parent Involvement	Parent Involvement	Parent Involvement	Parent Involvement	
	Students Leadership	Students Leadership	Students Leadership	Students Leadership	
	Mentoring	Mentoring	Mentoring	Mentoring	
<b>Required Entrance Exams</b>	Assessment/Testing	Assessment/Testing	Assessment/Testing	Assessment/Testing	
	Career Assessment	Career Assessment	Career Assessment	Career Assessment	
	Academic Assessment	Academic Assessment	Academic Assessment	Academic Assessment	
	Other	Other	Other	Other	
<b>Other</b>					

*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."*

*\*See p. 11: The 16 career clusters*

Career Cluster: \_\_\_\_\_

Career Pathway: \_\_\_\_\_

Learner Name \_\_\_\_\_ Date \_\_\_\_\_

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

<b>High School</b>	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
	English 1	English 2	English 3	English 4
	Algebra I	Geometry	Algebra II	<b>Career Cluster Elective:</b>
	Integrated Science 1	Integrated Science 2	Science: See pages 9 & 10 of <i>A Guide to Career Clusters and Pathways</i>	<b>Career Cluster Elective:</b>
	Principals of Democracy	New Mexico History/Geography	U.S. History	World History
	Foreign Language	Foreign Language	*Communication Skills or Business Education Course or 3 <sup>rd</sup> Level of a Foreign Language	<b>Career Cluster Elective:</b>
	Physical/Health Education 1	<b>Career Cluster Elective:</b>	<b>Career Cluster Elective:</b>	<b>Career Cluster Elective:</b>
	<b>Career Cluster Elective:</b>	<b>Career Cluster Elective:</b>	<b>Career Cluster Elective:</b>	<b>Career Cluster Elective:</b>
<b>Career Cluster Elective:</b>	<b>Career Cluster Elective:</b>	<b>Career Cluster Elective:</b>	<b>Career Cluster Elective:</b>	
<b>Course Substitution(s)</b>	<b>Course Substitution(s)</b>	<b>Course Substitution(s)</b>	<b>Course Substitution(s)</b>	
<b>Post-Secondary</b>	<b>Community College</b>		<b>College/University</b>	
	<input type="checkbox"/>		<input type="checkbox"/>	
			<b>Military, Job, or Other</b>	
			<input type="checkbox"/>	

Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

Advisor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

Advisor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

Advisor's Signature \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

Advisor's Signature \_\_\_\_\_ Date \_\_\_\_\_

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

<b>Student Name:</b> <i>Nombre del estudiante</i> _____	<b>Student ID #</b> <i># de identificación</i> _____
<b>Home Address:</b> <i>Dirección</i> _____	<b>City, State, Zip:</b> <i>Ciudad, Estado, Zona Postal</i> _____
<b>Parent/Guardian Name:</b> <i>Nombre del padre/Tutor</i> _____	<b>Phone Number:</b> <i>Número de teléfono</i> _____
	<b>Projected Graduation Date:</b> <i>Fecha de graduación proyectada:</i> _____

**What is the student's long-term career interest? *¿Cuál es el interés del estudiante en su carrera de largo plazo?***

**What does the student plan to do after high school? *¿Qué espera hacer el estudiante después de la escuela preparatoria?***

<b>Check appropriate box</b> <i>Marca la caja apropiada.</i>	<b>Write a narrative (descriptive statement) about your plans in the space provided. <i>Escribe un narrativo (una oración descriptiva) explicando sus planes en el espacio de abajo.</i></b>
<input type="checkbox"/> Bachelor Degree Program <i>Programa Bachiller</i>	_____
<input type="checkbox"/> Public College/University (name) <i>Colegio/Universidad Público (nombre)</i>	_____
<input type="checkbox"/> Private College/University (name) <i>Colegio/Universidad Privado (nombre)</i>	_____
<input type="checkbox"/> Associate Degree Program <i>Programa de Curso Asociado</i>	_____
<input type="checkbox"/> Trade Certificate Program <i>Programa de certificación técnico</i>	_____
<input type="checkbox"/> Military Service (branch) <i>Servicio militar</i>	_____
<input type="checkbox"/> Work/Study/Apprenticeship Program <i>Programa de trabajar/estudiar/aprendizaje</i>	_____
<input type="checkbox"/> On-the-Job Training <i>Entrenamiento en el trabajo</i>	_____
<input type="checkbox"/> Work <i>Trabajo</i>	_____
<input type="checkbox"/> Other <i>Otro</i>	_____

**How does the student intend to accomplish these goals? *¿Cómo espera el estudiante 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: _____	





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## Introduction to Career Pathways

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

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

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

This book is organized according to the sixteen clusters described on the next two pages, with course descriptions for each cluster. If you want to find a course quickly, check the back of the book for the index. It will tell you where you can find a specific course. Take your time and make good decisions when you choose your courses. You can always change your pathway or cluster. Part of being a high school student is about exploring options. The intention of this book is to give you some ideas to think about as you continue your journey towards a productive and fulfilling life..



## The Sixteen Career Clusters

Career Clusters provide a way for schools to organize instruction and student experiences around sixteen broad categories that encompass virtually all occupations from entry through professional levels. Resources such as **KNOWLEDGE AND SKILLS STRUCTURES** and **BROCHURES** are available for each of the sixteen clusters.

	<p>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</p>
	<p>Careers in designing, planning, managing, building and maintaining the built environment.</p>
	<p>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.</p>
	<p>Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.</p>
	<p>Planning, managing and providing education and training services, and related learning support services.</p>
	<p>Planning, services for financial and investment planning, banking, insurance, and business financial management.</p>
	<p>Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.</p>
	<p>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</p>

	<p>Hospitality &amp; Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.</p>
	<p>Preparing individuals for employment in career pathways that relate to families and human needs.</p>
	<p>Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.</p>
	<p>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p>
	<p>Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</p>
	<p>Planning, managing, and performing marketing activities to reach organizational objectives.</p>
	<p>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</p>
	<p>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</p>

**REQUIRED COURSES:** *The following courses are required for all students to meet New Mexico and District graduation requirements.*

## ENGLISH LANGUAGE AND LITERATURE

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

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

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 10015144/ **Honors English 1 (HonEnglish1)**

**PREREQUISITE/GRADE:** Teacher & Counselor Recommendation/ Grade 9

**CREDIT** 1

In addition to doing what is described above under English I, you will formulate questions to analyze elements of persuasion and apply them in your own writing. In addition, you will work on an individual project of your choice, involving research, to create a unique product.

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

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

**CREDIT** 1

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

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

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

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 10034145/10032153/ **English 3 (English3)**

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

**CREDIT** 1

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

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

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

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 10044145/10042154/ **English 4 (English4)**  
**PREREQUISITE/GRADE:** English 3, Honors English 3/ Grades 11, 12  
**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 10045145/ **Honors English 4 (HonrEnglish4)**  
**PREREQUISITE/GRADE:** Teacher & Counselor Recommendation, Grades 11,12  
**CREDIT** 1

In addition to doing what is described above under English 4, you will create a literary research project that includes a fully developed argument based on multiple, carefully selected sources; and explain your argument in a formal presentation. Preparation for the AP English Literature and Composition test may be included.

**COURSE NUMBER/TITLE:** 10734144/10732152/ **Communication Skills (CommuniSkill)**  
**PREREQUISITE/GRADE:** English 1, English 2  
**CREDIT** 1

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

## FOREIGN LANGUAGE AND LITERATURE

**COURSE NUMBER/TITLE:** 12524101/12522101/ **Spanish Non-Native Speakers 1 (SpanNonNativ1)**  
**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 12534101/12532101/ **Spanish Non-Native Speakers 2 (SpanNonNativ2)**  
**PREREQUISITE/GRADES:** Spanish Non-Native Speakers 1/ Grades 9, 10, 11, 12  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 12714101/12712101/ **Spanish for Native Speakers 1 (SpanNatiSpk1)**  
**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 12724101/12742101/ *Spanish for Native Speakers 2 (SpanNatiSpk2)*  
**PREREQUISITE/GRADES:** Spanish for Native Speakers I/ Grades 9, 10, 11, 12  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 12734101/12732101/*Advanced Spanish for Native Speakers 3 (AdvSpanNat3)*  
**PREREQUISITE/GRADES:** Spanish Non-Native Speakers 2/ Grades 9, 10, 11, 12  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 12545101/ *Honors Spanish 3 (HonSpanish3)*  
**PREREQUISITE/GRADES:** Span Non-Nat Speak 2, Span Nat Speak 2, or Adv. Span III/ Grades 10, 11, 12  
**CREDIT:** 1

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

### ***LIFE AND PHYSICAL SCIENCES***

**COURSE NUMBER/TITLE:** 17414113/17412113/ *Integrated Science 1 (IntegSci1)*  
**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 17415113/ *Honors Integrated Science 1 (H-IntegSci1)*  
**PREREQUISITE/GRADES:** Teacher, counselor recommendation / Grades 9, 10, 11, 12  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 17414114/17412114/ *Integrated Science 2 (IntegSci2)*  
**PREREQUISITE/GRADE:** Integr. Sci. 1/ Grades 10, 11, 12  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 17415114/*Honors Integrated Science 2 (H-IntegSci2)*  
**PREREQUISITE/GRADE:** Integr. Sci. 1, Teacher, counselor recommendation/ Grades 9, 10, 11, 12  
**CREDIT:** 1

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



**[In addition, take at least ONE of the following:]**

**COURSE NUMBER/TITLE:** 17124114/17122113/ **Biology—Advanced Studies (BiolAdvStud)**

**PREREQUISITE/GRADE:** Integr. Sci. 1 & 2/ Grades 9, 10, 11, 12

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 17125914/ **Honors Biology—Advanced Studies (HonBiolAdvSt)**

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

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 17234114/ **Chemistry—Advanced Studies (ChemAdvStud)**

**PREREQUISITE/GRADE:** Algebra I, Integr. Sci. 1 & 2/ Grades 10, 11, 12

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 17235914/ **Honors Chemistry—Advanced Studies (HonChemAdvSt)**

**PREREQUISITE/GRADE:** Integr. Sci. 1 & 2, Teacher, Counselor Recommendation/ Grades 10, 11, 12

**CREDIT:** 1

Explore and extend chemistry concepts at a college level. Develop, conduct, and share individual experiments to investigate concepts and topics in depth. Technology is integrated throughout the course.

**COURSE NUMBER/TITLE:** 17334114/ **Physics—Advanced Studies (PhysicsAdvSt)**

**PREREQUISITE/GRADE:** Integr. Sci. 1 & 2, Algebra 2/ Grades 10, 11, 12

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 17335914/ **Honors Physics—Advanced Studies (HonPhysAdvSt)**

**PREREQUISITE/GRADE:** Algeb. 2, Teacher, Counselor Recommendation/ Grades 11, 12

**CREDIT** 1

Explore and extend physics concepts at a college level. Develop, conduct, and share individual experiments to investigate concepts and topics in depth. Technology is integrated throughout the course.

## MATHEMATICS

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

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

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 20315133/ *Honors Algebra 1 (HonAlgebra1)*

**PREREQUISITE/GRADES:** Teacher & Counselor Recommendation/ Grade 9

**CREDIT:** 1

In addition to what is described above under Algebra 1, enhance your knowledge by exploring field properties and theorems, set theory, solving systems of linear equations and inequalities, and solving and graphing complex quadratic equations.

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

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

**CREDIT:** 1

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

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

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

**CREDIT:** 1

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

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

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

**CREDIT:** 1

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

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

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

**CREDIT:** 1

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

## PHYSICAL EDUCATION

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

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

**CREDIT:** 1

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

## SOCIAL SCIENCES AND HISTORY

**COURSE NUMBER/TITLE:** 27304142/27414142/ *American Government and Economics (USGovt/Econ)*

27302142/27412142

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

**CREDIT:** 1

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

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

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

**CREDIT:** 1

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

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

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

**CREDIT:** 1

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

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

**PREREQUISITE/GRADES:** Counselor, Teacher Recommendation

**CREDIT:** 1

In addition to what is described above under U.S. History, do research to create projects that enhance your experience of history/geography.

### *ELECTIVE HONORS COURSES*

**NOTE:** Depending on the Pathway you choose, you should seriously consider the following honors courses, which may give you a higher level of preparation in your particular career.

#### **MATHEMATICS**

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

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

**CREDIT:** 1

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

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

**PREREQUISITE/GRADES:** Honors Trigonometry/ Grade 11, 12

**CREDIT:** 1

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

## *PROGRAM FOR THE ACQUISITION OF LANGUAGE*

**COURSE NUMBER/TITLE:** *10623810/ English Listening, Understanding & Speaking (ESLLisUnSp)*  
**PREREQUISITES/GRADES:** Counselor Recommendation/ Grades 9, 10, 11, 12  
**CREDIT:** 1  
Develop listening skills through conversational activities and increase your English speaking proficiency.

**COURSE NUMBER/TITLE:** *10623851/ English Speaking & Writing (ESLSpkWrit)*  
**PREREQUISITES/GRADES:** Counselor Recommendation/ Grades 9, 10, 11, 12  
**CREDIT:** 1  
Develop your English speaking skills through activities, which emphasize extended conversational skills. Also, learn to write sentences and place them in the context of a paragraph.

**COURSE NUMBER/TITLE:** *10623852/ English for Content (ESLEngCont)*  
**PREREQUISITES/GRADES:** Counselor Recommendation/ Grades 9, 10, 11, 12  
**CREDIT:** 1  
Develop the basic vocabulary necessary for listening, understanding, speaking, reading, and writing the terminology used in content area courses.

**COURSE NUMBER/TITLE:** *10623853/ English Language Literacy 1 (ESL1)*  
**PREREQUISITES/GRADES:** Counselor Recommendation/ Grades 9, 10, 11, 12  
**CREDIT:** 1  
Increase and expand your reading comprehension and writing skills.

**COURSE NUMBER/TITLE:** *10623843/ English Language Literacy 2 (ESL2)*  
**PREREQUISITES/GRADES:** Counselor Recommendation/ Grades 9, 10, 11, 12  
**CREDIT:** 1  
Learn to integrate the communication skills of listening, speaking, reading, and writing skills.

**COURSE NUMBER/TITLE:** *10623844/ English Language Literacy 3 (ESL3)*  
**PREREQUISITES/GRADES:** Counselor Recommendation/ Grades 9, 10, 11, 12  
**CREDIT:** 1  
Learn to integrate the communication skills of listening, speaking, reading, and writing skills.

# *GETTING A HEAD START: PATHWAYS FOR CHAPARRAL HIGH SCHOOL STUDENTS*

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

## Architecture & Construction



Pre-Design Pathway – Drafting



Construction Pathway – Building Trades

## Arts, Audio-Visual Technology & Communication



Audio-Video Technologies Pathway – Media Production

## Business Management



Administration and Information Support Pathway – Administrative Assistant

## Education & Training



Teaching and Training Pathway – Teacher Cadet

## Hospitality & Tourism



Restaurant and Food Services Pathway – Culinary Arts/Pro-Start

## Manufacturing



Manufacturing Technology Pathway – Bridges Program


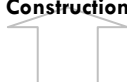

## Transportation, Distribution & Logistics Pathway



Facility and Mobile Maintenance - Mechanics

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

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

Sample Career Specialties / Occupations	<p>Architect • Architectural and Civil Drafter • Drafter • Regional and Urban Planner/Designer • Industrial Engineer • Materials Engineer • Mechanical Drafter • Environmental Designer • Civil Engineer (structural, geotechnical, transportation, etc.) • Programmer • Mechanical Engineer (HVAC, plumbing, fire protection, etc.) • Electrical Engineer (electronics, security, telecommunications) • Preservationist • Environmental Engineer (hydro engineering, acoustical, etc.) • Landscape Architect • Surveyor • Fire Prevention and Protection Engineer • Cost Estimator • Electrical and Electronic Engineering Technician • Civil Engineering Technician • Environmental Engineering Technician • Surveying and Mapping Technician •</p>	<p>General Contractor/Builder • Specialty Contractor • Construction Engineer • Construction Manager • Superintendent • Project Manager • Construction Foreman • Estimator • Project Inspector • Manufacturer's Representative • Sales and Marketing Manager • Equipment and Material Manager • Scheduler • Education and Training Director/Coordinator • Safety Director • Construction Inspector • Subcontractor • Preservationist • Service Contractor • Field Supervisor • Specialty Trades Subcontractor • Mason • Construction Craft Laborer • Iron/Metalworker (structural and reinforcing) • Carpenter • System Installer • Electrician • Boilermaker • Electronic Systems Technician • Sheetmetal Worker • Security and Fire Alarm Systems Installer • Concrete Finisher • Glazier • Tile and Marble Setter • Landscaper/Groundskeeper • Elevator Installer • Roofer • Painter • Explosives Worker • Plasterer/Drywall • Paperhanger • Insulation Worker • Drywall Installer • Plumber • Pipe Fitter • Millwright • Heating, Ventilation, Air Conditioning and Refrigeration Mechanic • Carpet Installer • Electrician • Steamfitter • Terrazo Worker and Finisher</p>	<p>Architect • Architectural and Civil Drafter • Drafter • Regional and Urban Planner/Designer • Industrial Engineer • Materials Engineer • Mechanical Drafter • Environmental Designer • Civil Engineer (structural, geotechnical, transportation, etc.) • Programmer • Mechanical Engineer (HVAC, plumbing, fire protection, etc.) • Electrical Engineer (electronics, security, telecommunications) • Preservationist • Environmental Engineer (hydro engineering, acoustical, etc.) • Landscape Architect • Surveyor • Fire Prevention and Protection Engineer • Cost Estimator • Electrical and Electronic Engineering Technician • Civil Engineering Technician • Environmental Engineering Technician • Surveying and Mapping Technician • Interior Designer • Landscape Designer • Specifications Writer • Building</p>
Pathways	<p>Design/Pre-Construction</p> 	<p>Construction</p> 	<p>Maintenance/Operations</p> 
Cluster K&S	<p><b>Cluster Knowledge and Skills</b></p> <ul style="list-style-type: none"> <li>◆ Academics ◆ Communications ◆ Problem Solving and Critical Thinking ◆ Information Technology Applications ◆ Systems</li> <li>◆ Safety, Health and Environmental ◆ Leadership and Teamwork ◆ Ethics and Legal Responsibilities</li> <li>◆ Employability and Career Development ◆ Technical Skills</li> </ul>		



# Career Cluster: Architecture and Construction

## Plan of Study: Design/Pre-Construction

Learner's Name \_\_\_\_\_ Date \_\_\_\_\_

Learner's Signature \_\_\_\_\_ Advisor Signature \_\_\_\_\_

Parent/Guardian Signature) \_\_\_\_\_

**This plan of study should serve as a guide, along with other career planning materials, as you continue your career path.** Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

		9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>High School</b>		English 1	English 2	English 3	English 4
		Algebra 1	Geometry	Algebra 2	<b>Recommended Mathematics</b> <b>Elective:</b> Technical Mathematics (DACC)
		Integrated Science 1	Integrated Science 2	<b>Recommended Science:</b> Physics See p. 25 for other options	<b>Elective:</b>
		American Government and Economics	New Mexico History	U. S. History	World History
		Physical Education/ Health	<b>Elective:</b>	Communication Skills <b>or</b> Business Education Course <b>or</b> Level 3 Foreign Language	<b>Elective:</b>
		Foreign Language Level 1	Foreign Language Level 2	<b>Elective:</b>	<b>Elective:</b>
		<b>Related Career Electives:</b> Drafting 1	<b>Pathway Electives:</b> Architectural Drafting 1	<b>Pathway Elective:</b> Architectural Drafting 2	<b>Pathway Elective:</b> CAD Design and Software
		<b>Course Substitution:</b>	<b>Course Substitution:</b>	<b>Course Substitution:</b>	<b>Course Substitution:</b>
		<b>Course Substitution:</b>	<b>Course Substitution:</b>	<b>Course Substitution:</b>	<b>Course Substitution:</b>
<b>Career Enhancement Options</b>	<b>Work-based Learning Options</b>	<b>Nationally Recognized Certificate</b>		<b>Dual/Articulated Credit Options</b>	
	Job-Shadowing: Internship/Mentorship:  On-The-Job Training: Apprenticeships:  <b>For Apprenticeship information visit</b> <a href="http://www.doleta.gov/atels_bat/sainformation.asp">www.doleta.gov/atels_bat/sainformation.asp</a>	NOCTI Drafting		<b>DACC Dual Credit Option:</b> Technical Math & Drafting Classes  <b>DACC Articulated Credit:</b> OEDG 110 Introduction to Drafting, articulated with CAD Design & Software	

<b>DCCPP</b>	<b>Dual Credit Career Pathways Program</b>	
	<p>Gadsden ISD and Dona Ana Branch Community College provide an opportunity for high school juniors and seniors who qualify to attend courses at the DACC Gadsden Educational Center and Sunland Park Educational Center. Students take courses that will apply towards their high school credits and can also be applied towards an associate degree or certification at DACC. Some courses may also transfer over to a bachelor's degree program. Courses are held Monday through Friday. Students have the option of taking a bus from their high school to the DACC branch closest to their school or providing their own transportation. Students choosing to use their own transportation must meet the GISD Transportation Agreement requirements. Gadsden ISD pays for books and tuition as long as the student is enrolled in one of the high schools. Information about the Dual Credit Career Pathways Program can be obtained by visiting the counseling center or the One Stop Career Center located on the campuses of Chaparral, Gadsden, and Santa Teresa High School.</p>	
<b>Post-Secondary</b>	<b>Dona Ana Community College</b>	<b>New Mexico State University</b>
	<p style="text-align: center;"><b>Certificate Program: Building Construction Technology</b></p> <p><b>Program of Study</b></p> <ul style="list-style-type: none"> <li>OEBT 255 Special Topics: Surveying for Construction</li> <li>OEMN 230 Facilities Maintenance</li> <li>COMM 265G Principles of Communication</li> <li>OEDG 190 Finding and Maintaining Employment</li> <li>OETS 104 Basic Math for Technicians</li> <li>OEBT 101 Introduction to Construction 1</li> <li>OEBT 102 Introduction to Construction 2</li> <li>OEBT 104 Woodworking Skills</li> <li>OEBT 110 Blueprint Reading for Building Trades</li> <li>OEMN 200 Exterior Building Maintenance</li> </ul>	<p><b>DEGREE: Bachelor of Science in Civil Engineering</b></p> <p>The curricula in civil engineering is designed to provide a broad background and is so arranged that students may specialize in one or more of the options listed above or work in one or more areas of civil engineering in the Senior year. Students may wish to obtain more than one option in civil engineering.</p> <p><b>Requirements:</b></p> <p>In addition to the university requirements for graduation, a student must have a 2.0 grade-point average in all departmental courses and pass the Fundamentals of Engineering Examination prior to graduation.</p> <p><b>Civil Engineering Program Educational Objectives:</b></p> <p>Civil engineers design, test and evaluate public works projects that include structures, environmental systems, water resources, transportation, and geotechnical applications. Civil engineers work as private consultants, for public agencies, industrial companies and research organizations and therefore the tools and methods of the civil engineer are both varied and broad.</p> <p>They use knowledge and skills in engineering, mathematics, and physical and social sciences along with the principles and methods of engineering analysis and design to evaluate and improve such systems.</p>



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





## PATHWAY ELECTIVES

### DRAFTING

**COURSE NUMBER/TITLE:** 07024151/ *Drafting 1 (Drafting1)*

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

**CREDIT** 1

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

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

**PREREQUISITE/GRADE:** Drafting 1/ Grades 10, 11, 12

**CREDIT** 1

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

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

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

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 07077231/ *CAD Design and Software (CADDDesign)*

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

**CREDIT** 1

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

### TECHNOLOGY EDUCATION

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

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

**CREDIT** 1

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



# Career Cluster: Architecture and Construction

## Plan of Study: Construction

Learner's Name \_\_\_\_\_ Date \_\_\_\_\_

Learner's Signature \_\_\_\_\_

Advisor Signature \_\_\_\_\_

Parent/Guardian Signature) \_\_\_\_\_

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

<b>High School</b>	<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
	English 1	English 2	English 3	English 4
	Algebra 1	Geometry	Algebra 2	<b>Recommended Mathematics Elective:</b> Technical Mathematics (DACC)
	Integrated Science 1	Integrated Science 2	<b>Recommended Science:</b> Physics See p. 25 for Other Options	<b>Elective:</b>
	American Government and Economics	New Mexico History	U. S. History	World History
	Physical Education/ Health	<b>Elective:</b>	Communication Skills <b>or</b> Business Education Course <b>or</b> Level 3 Foreign Language	<b>Elective:</b>
	Foreign Language Level 1	Foreign Language Level 2	<b>Recommended Career Elective:</b> Drafting	<b>Elective:</b>
	<b>Recommended Career Elective:</b> Carpentry	<b>Pathway Elective:</b> Construction	<b>Pathway Elective:</b> Framing Carpentry	<b>Pathway Elective:</b> Particular Topics in Carpentry
	<b>Course Substitution:</b>	<b>Course Substitution:</b>	<b>Course Substitution:</b>	<b>Course Substitution:</b>
<b>Career Enhancement Options</b>	<b>Work-based Learning Options</b>		<b>Nationally Recognized Certificate</b>	<b>Dual/Articulated Credit Options</b>
	Job-Shadowing: Internship/Mentorship:  On-The-Job Training: Apprenticeships:  <b>For Apprenticeship information visit</b> <a href="http://www.doleta.gov/atels_bat/sainformation.asp">www.doleta.gov/atels_bat/sainformation.asp</a>		NCCER Core Skill NCCER Carpentry	<b>DACC Dual Credit Option:</b> Technical Math & Particular Topics in Carpentry  <b>DACC Articulated Credit:</b> Construction & Framing Carpentry



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

<b>DCCPP</b>	<b>Dual Credit Career Pathways Program</b>	
	<p>Gadsden ISD and Dona Ana Community College provide an opportunity for high school juniors and seniors who qualify to attend courses at the DACC Gadsden Educational Center and Sunland Park Educational Center. Students take courses that will apply towards their high school credits and can also be applied towards an associate degree or certification at DACC. Some courses may also transfer over to a bachelor's degree program. Courses are held Monday through Friday. Students have the option of taking a bus from their high school to the DACC closest to their school or providing their own transportation. Students choosing to use their own transportation must meet the GISD Transportation Agreement requirements. Gadsden ISD pays for books and tuition as long as the student is enrolled in one of the high schools. Information about the Dual Credit Career Pathways Program can be obtained by visiting the counseling center or the One Stop Career Center located on the campuses of Chaparral, Gadsden, and Santa Teresa High School.</p>	
<b>Post-Secondary</b>	<b>Dona Ana Community College</b>	<b>New Mexico State University</b>
	<p style="text-align: center;"><b>Certificate Program: Building Construction Technology</b></p> <p><b>Program of Study</b></p> <ul style="list-style-type: none"> <li>OEBT 255 Special Topics: Surveying for Construction</li> <li>OEMN 230 Facilities Maintenance</li> <li>COMM 265G Principles of Communication</li> <li>OEDG 190 Finding and Maintaining Employment</li> <li>OETS 104 Basic Math for Technicians</li> <li>OEBT 101 Introduction to Construction 1</li> <li>OEBT 102 Introduction to Construction 2</li> <li>OEBT 104 Woodworking Skills</li> <li>OEBT 110 Blueprint Reading for Building Trades</li> <li>OEMN 200 Exterior Building Maintenance</li> </ul>	<p><b>DEGREE: Bachelor of Science in Civil Engineering</b></p> <p>The curricula in civil engineering is designed to provide a broad background and is so arranged that students may specialize in one or more of the options listed above or work in one or more areas of civil engineering in the Senior year. Students may wish to obtain more than one option in civil engineering.</p> <p><b>Requirements:</b></p> <p>In addition to the university requirements for graduation, a student must have a 2.0 grade-point average in all departmental courses and pass the Fundamentals of Engineering Examination prior to graduation.</p> <p><b>Civil Engineering Program Educational Objectives:</b></p> <p>Civil engineers design, test and evaluate public works projects that include structures, environmental systems, water resources, transportation, and geotechnical applications. Civil engineers work as private consultants, for public agencies, industrial companies and research organizations and therefore the tools and methods of the civil engineer are both varied and broad. They use knowledge and skills in engineering, mathematics, and physical and social sciences along with the principles and methods of engineering analysis and design to evaluate and improve such systems.</p>



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



## PATHWAY ELECTIVES

### DRAFTING

**COURSE NUMBER/TITLE:** 07024151/ *Drafting 1 (Drafting1)*

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

**CREDIT** 1

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

### CONSTRUCTION TRADES

**COURSE NUMBER/TITLE:** 04147257/ *Carpentry (Carpentry)*

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

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 04027237/ *Construction (Construction)*

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

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 04157257/ *Framing Carpentry(Framing)*

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

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 04157237/ *Particular Topics in Carpentry (TopicsCarpen)*

**PREREQUISITE/GRADE:** Framing Carpentry/ Grades 12

**CREDIT** 1

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

## TECHNOLOGY EDUCATION

**COURSE NUMBER/TITLE:** 16067230/ *Work Experience (Pathway Only) (CPWorkExper)*  
**PREREQUISITE/GRADE:** Teacher Approval/ Grades 11, 12  
**CREDIT** 1  
Apply and improve your workplace skills and pathway knowledge on the job.



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

<b>Sample Career Specialties/Occupations</b>	<ul style="list-style-type: none"> <li>◆ Video Systems Technicians</li> <li>◆ Video Graphics, Special Effects, and Animation</li> <li>◆ Audio-Video Designers and Engineers</li> <li>◆ Technical Computer Support Technicians, State, Film, Video, and DVD</li> <li>◆ Audio-Video System Service Technicians</li> <li>◆ Audio Systems Technicians</li> </ul>	<ul style="list-style-type: none"> <li>◆ Graphics and Printing Equipment Operators</li> <li>◆ Lithographers and Platemakers</li> <li>◆ Computer Typography and Composition Equipment Operators</li> <li>◆ Desktop Publishing Specialists; Web Page Designers</li> </ul>	<ul style="list-style-type: none"> <li>◆ Commercial Photographers, Digital, Still, Video, Film</li> <li>◆ Interior Designers, Commercial/Residential and Home Furnishings coordinators</li> <li>◆ Graphic Designers, CAD Technicians, and Fashion Illustrators</li> <li>◆ Textile Designers</li> <li>◆ Commercial Artists, Illustrators, and Artists, all Media</li> <li>◆ Curators and Gallery Managers</li> <li>◆ Fashion Designers</li> </ul>	<ul style="list-style-type: none"> <li>◆ Production Managers, Digital, Video, Stage</li> <li>◆ Cinematographers, Film/Video Editors</li> <li>◆ Dancers</li> <li>◆ Play Writers, Screen Writers, Screen Editors, Script Writers</li> <li>◆ Directors and Coaches, Performers, actors, Musicians</li> <li>◆ Make-Up Artists and Costume Designers</li> <li>◆ Stagecraft Designers, Lighters, Sets, Sound Effects, Acoustics, Painters</li> <li>◆ Composers, Conductors, and Music Instructors</li> </ul>	<ul style="list-style-type: none"> <li>◆ Audio/Video Operations, Control Room Technician</li> <li>◆ Station Mangers and Radio &amp; TV Announcers</li> <li>◆ Publishers, Editors, and Journalists and Reporters, Print, Broadcast, Other</li> <li>◆ Broadcast Technicians</li> </ul>	<ul style="list-style-type: none"> <li>◆ Telecommunication Technicians</li> <li>◆ Telecommunication Equipment, Cable, Line Repairers/Installers</li> <li>◆ Telecommunication Computer Programmers, and Systems Analysts</li> </ul>
<b>Pathways</b>	<b>Audio and Video Technologies</b>	<b>Printing Technologies</b>	<b>Visual Arts</b>	<b>Performing Arts</b>	<b>Journalism and Broadcasting</b>	<b>Telecommunications Technologies</b>
<b>Cluster K&amp;S</b>	<p><b>Cluster Knowledge and Skills</b></p> <ul style="list-style-type: none"> <li>◆ Academic Foundations ◆ Communications ◆ Problem Solving and Critical Thinking ◆ Information Technology Applications ◆ Systems</li> <li>◆ Safety, Health and Environmental ◆ Leadership and Teamwork ◆ Ethics and Legal Responsibilities</li> <li>◆ Employability and Career Development ◆ Technical Skills</li> </ul>					



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



# Career Cluster: Arts, A/V Technology & Communications

## Plan of Study: Audio and Visual Technologies

Learner's Name \_\_\_\_\_

Date \_\_\_\_\_

Learner's Signature \_\_\_\_\_

Advisor Signature \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

High School	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
	English 1	English 2	English 3	English 4
	Algebra 1	Geometry	Algebra 2	<b>Recommended Mathematics Elective:</b> Technical Mathematics (DACC)
	Integrated Science 1	Integrated Science 2	<b>Recommended Science:</b> Physics <i>See other options on p. 25</i>	<b>Elective:</b>
	American Government and Economics	New Mexico History	U. S. History	World History
	Physical Education/Health	<b>Elective:</b>	Communication Skills or Level 3 Foreign Language	<b>Elective:</b>
	Foreign Language 1	<i>Foreign Language 2</i>	<b>Elective:</b>	<b>Elective:</b>
	<b>Elective:</b>	<b>Pathway Elective:</b> Mass Media Communication	<b>Pathway Elective:</b> Mass Media Production 1	<b>Pathway Elective:</b> Mass Media Production 2
<b>Course Substitution:</b>	<b>Course Substitution:</b>	<b>Course Substitution:</b>	<b>Course Substitution:</b>	
Career Enhancement Options	Work-based Learning Options		Nationally Recognized Certificate	Dual/Articulated Credit Options
	Job-Shadowing:  Internship/Mentorship:  On-The-Job Training:		NOCTI Media Production	<b>DACC Dual Credit Option:</b> Technical Math  <b>DACC Articulated Credit:</b> Mass Production 2

<b>DCCPP</b>	<b>Dual Credit Career Pathways Program</b>	
	<p>Gadsden ISD and Dona Ana Branch Community College provide an opportunity for high school juniors and seniors who qualify to attend courses at the DACC Gadsden Educational Center and Sunland Park Educational Center. Students take courses that will apply towards their high school credits and can also be applied towards an associate degree or certification at DACC. Some courses may also transfer over to a bachelor's degree program. Courses are held Monday through Friday. Students have the option of taking a bus from their high school to the DACC branch closest to their school or providing their own transportation. Students choosing to use their own transportation must meet the GISD Transportation Agreement requirements. Gadsden ISD pays for books and tuition as long as the student is enrolled in one of the high schools. Information about the Dual Credit Career Pathways Program can be obtained by visiting the counseling center or the One Stop Career Center located on the campuses of Chaparral, Gadsden, and Santa Teresa High School.</p>	
<b>Post-Secondary</b>	<b>Doña Ana Community College</b>	<b>New Mexico State University</b>
	<p style="text-align: center;"><b>Associate Degree—Creative Media Technology</b></p> <p><b>Core Requirements:</b>  <i>COMM 265G, Principles of Communication</i>  <i>ENGL 111G, English Composition</i>  <i>ENGL 116G, Perspectives on Film</i>  <i>HIST or PHIL</i> general education course  <i>MATH 210G, Math Appreciation</i>  <i>PHYS 110G, Law of Physics</i></p> <p><b>Technical/Related Requirements:</b>  CMT 120, Introduction to Creative Media  CMT 146, Digital Foundations  CMT 150, 2-D Animation  CMT 160, Modeling and Animation  CMT 170, History of Film: A Global Perspective  CMT 248, Principles of Story  OEGR 110, Introduction to Web Design  OEGR 180, Principles of Digital Graphics  OEGR 190, Digital Video Production I  OEGR 195, Digital Video Production II  OEGR 196, Digital Audio Production  OEGR 210, Digital Video Editing I  OEGR 280, Principles of Digital Graphics II</p>	<p><b>NMSU's Creative Media Institute (CMI)</b> offers the Bachelor of Individualized Studies degree focused in Creative Media (BIS). CMI is a dynamic cross-disciplinary program that prepares students for the 21st century in digital filmmaking, animation, and games development.</p> <p>The <b>CMI curriculum</b> focuses on the art, craft, and business of storytelling. Our students choose one area of emphasis, but they study all aspects of digital filmmaking and digital arts, whether they are aspiring writers, directors, cinematographers, animators, or video gamers.</p> <p>Theory and practice are integrated at every step. Students manipulate text, sound, images, and cinema using industry-standard technology.</p> <p>CMI will house a state of the art digital projection system screening room, post-production lab, animation lab, and production space.</p> <p>CMI is the place to learn your craft and find your voice-to master the artistic process and technical skills needed to realize your vision.</p> <p><b>NMSU College of Extended Learning: Creative Media Institute</b> (505) 646-5671 or (800) 821-1574</p>



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## PATHWAY ELECTIVES

### MASS COMMUNICATION

**COURSE NUMBER/TITLE:** 19217573/ **Mass Media Communication (MediaComm)**

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

**CREDIT** 1

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

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

**PREREQUISITE/GRADE:** Mass Media Communication/ 11, 12

**CREDIT** 1

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

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

**PREREQUISITE/GRADE:** Mass Media Production 1/12

**CREDIT** 1

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

### TECHNOLOGY EDUCATION

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

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

**CREDIT** 1

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



**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.**

<b>Sample Career Specialties / Occupations</b>	<p>Entrepreneurs•Chief Executives•General Managers•Accounting Manager•Accounts Payable Manager•Assistant Credit Manager•Billing Manager•Business &amp; Development Manager•Compensation &amp; Benefits Manager•Credit &amp; Collections Manager•Payroll Manager•Risk Manager•Operations Managers• Public Relations Managers• Human Resource Managers• Management Analysts• Facilities Managers•Association Managers •Meeting &amp; Convention Planners• Administrative Services Managers• Sports &amp; Entertainment Managers•Hospital Management•Government Management•Public Organization Management•Manufacturing Management•Purchasing Management• First Line Supervisors•Public Relations Specialists•Senior Managers•Management Trainees•</p>	<p>Accountants*Accounting Clerk*Accounting Supervisor*Adjuster* Adjustment Clerk*Assistant Treasurer*Auditor*Bookkeeper*Budget Analyst*Budget Manager*Billing Supervisor*Cash Manager*Controller* Merger &amp; 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 Accounting Clerk*Payroll Accounting Clerk</p>	<p>Human Resources Managers•International Human Resources Managers•Human Resources Coordinators•Industrial Relations Director•Compensation &amp; Benefits Managers•Employment &amp; Placement Managers•Employee Assistance Plan Managers•Training &amp; Development Managers•Human Resources consultant•Corporate Trainer• Training &amp; Development Specialists•Conciliators/Mediators/Arbitrators• Employer Relations Representatives•Labor &amp; Personnel Relations Specialists•Affirmative Action Coordinators•Equal Employment Opportunity Specialists•OSHA/ADA Compliance Officer•Pay Equity Officers•Interpreters &amp; Translators•Organizational Behaviorists•Occupational Analysts•Compensation, Benefits &amp; Job Analyst Specialists•Human Resources Information Systems Specialists•Meeting &amp; 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</p>	<p>Systems Analysts•E-Commerce Analysts• Requirements Specialist•Marketing Analysts•Operations Research Analysts•Business Consultant•Business Analysts•Budget Analysts• Product Manager•Price Analyst</p>	<p>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 &amp; Development Supervisor•International Marketing Manager &amp; Supervisor•International Merchandising Manager &amp; Supervisor•Marketing Manager•Property, Real Estate and Association Manager &amp; Supervisor•Small Business Owner &amp; Entrepreneur•E-commerce Manager &amp; Entrepreneur•Wholesale &amp; 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, &amp; Receiving Clerk•Demonstrators and Product Promoter•Retail Salespeople &amp; Associate•Telemarketer</p>	<p>Administrative Assistant•Executive Assistant•Office Manager•Administrative Support•Media Front Office Assistant•Information Assistant•Desktop Publisher•Customer Service Assistant•Data Entry Specialists•Receptionist•Communications Equipment Operator•Computer Operator•Court Reporter•Stenographer•Dispatcher•Shipping &amp; Receiving Personnel•Records Processing Occupations including Library Assistant &amp; Order Processor•Word Processor•Typists•Medical Transcriptionist•Legal Secretaries•Paralegals</p>
	<b>Pathways</b>	<b>Management</b>	<b>Business Financial Management &amp; Accounting</b>	<b>Human Resources</b>	<b>Business Analysis</b>	<b>Marketing</b>
<b>Cluster K&amp;S</b>	<p><b>Cluster knowledge and skills</b></p> <ul style="list-style-type: none"> <li>◆ Academic Foundations ◆ Communications ◆ Problem Solving and Critical Thinking ◆ Information Technology Applications ◆ Systems</li> <li>◆ Safety, Health and Environmental ◆ Leadership and Teamwork ◆ Ethics and Legal Responsibilities</li> <li>◆ Employability and Career Development ◆ Technical Skills</li> </ul>					



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# Career Cluster: Business Management and Administration

## Program of Study Administrative and Information Support

Learner's Name \_\_\_\_\_

Date \_\_\_\_\_

Learner's Signature \_\_\_\_\_

Advisor Signature \_\_\_\_\_

Parent/Guardian Signature (if required) \_\_\_\_\_

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

High School	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
	English 1	English 2	English 3	English 4
	Algebra 1	Geometry	Algebra 2	<b>Recommended Mathematics Elective:</b> Technical Mathematics (DACC)
	Integrated Science 1	Integrated Science 2	<b>Recommended Science:</b> Biology <i>See p. 25 for Options</i>	<b>Elective:</b>
	American Government and Economics	New Mexico History	U. S. History	World History
	<i>Foreign Language Level 1</i>	Foreign Language Level 2	Communication Skills <b>or</b> <i>Level 3 Foreign Language</i>	<b>Elective:</b>
	Physical Education/Health	<b>Recommended Elective:</b> Business Law		
	<b>Recommended Elective:</b> General Computer Applications	<b>Pathway Elective(s):</b> Office Technology	<b>Pathway Elective(s):</b> Business Computer Applications 1	<b>Pathway Elective(s):</b> *Business Computer Applications 2 (IC3)/(MOS)
	<b>Course Substitution:</b>	<b>Course Substitution</b>	<b>Course Substitution:</b>	<b>Course Substitution:</b>
Career Enhancement Options	Work-based Learning Options	Short-Term Training Options	Dual/Articulated Credit Options	
	Job-Shadowing:  Internship/Mentorship:  On-The-Job Training:	Microsoft Office Suite (MOS) Certification  Internet and Computing Core (IC3) Certification	<b>DACC Dual Credit Option:</b> Technical Math  <b>DACC Articulated Credit:</b> BOT 211 Information Processing 1 and OECS 217 PowerPoint Presentations, articulated with Business Computer Applications I, MOS Certification areas, and OECS 215 Spreadsheets Applications and OECS 220 Database Applications, articulated with Business Computer Application II, MOS Certification Areas	

<b>DCCPP</b>	<b>Dual Credit Career Pathways Program</b>	
	<p>Gadsden ISD and Dona Ana Community College provide an opportunity for high school juniors and seniors who qualify to attend courses at the DACC Gadsden Educational Center and Sunland Park Educational Center. Students take courses that will apply towards their high school credits and can also be applied towards an associate degree or certification at DACC. Some courses may also transfer over to a bachelor's degree program. Courses are held Monday through Friday. Students have the option of taking a bus from their high school to the DACC closest to their school or providing their own transportation. Students choosing to use their own transportation must meet the GISD Transportation Agreement requirements. Gadsden ISD pays for books and tuition as long as the student is enrolled in one of the high schools. Information about the Dual Credit Career Pathways Program can be obtained by visiting the counseling center or the One Stop Career Center located on the campuses of Chaparral, Gadsden, and Santa Teresa High School.</p>	
<b>Post-Secondary</b>	<b>Dona Ana Community College</b>	<b>New Mexico State University</b>
	<p style="text-align: center;"><b>Associate of Business Office Technology Degree – Administrative Assistant, Office Specialist (Legal, Medical, Accounting), Accounting Office Assistant</b></p> <p><b>Program of Study</b>          Business Mathematics, or Intermediate Algebra          Public Speaking <b>or</b> Principal of Human Communication          Rhetoric and Composition          Principles of Macroeconomics, or approved business-related elective          Human Relations, <b>or</b> Introduction to Psychology <b>or</b> Introductory Sociology          Keyboarding (BOT 102)          Business English I (BOT 105)          Business English II (BOT 109)          Accounting Procedures I (BOT 120)          Business &amp; Technical Communications (BOT 209)          Information Processing I (BOT 211)          Cooperative Experience I and II (BOT 221/222)          Principles of Supervision (OEBU 140), <b>or</b> Introduction to Business (OEB 110)  <b>or</b> OEBU elective          Resume &amp; Employment Preparation (OEBU 201)          Spreadsheet Applications (OECS 215)          Approved Electives 1-4  <i>Technical Requirements: Students may choose from among three areas of specialization: Administrative Assistant (21 Credits), Office Specialist – medical, legal, or accounting (21 Credits), and Accounting Assistant (21 Credits).</i></p>	<p><b>Bachelor of Business Administration:</b>          Majors in Business Computer Systems, Economics, Finance, General Business, International Business, Management, and Marketing</p>



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## PATHWAY ELECTIVES

### BUSINESS

**COURSE NUMBER/TITLE:** 02027255/ *Office Technology—Comprehensive (OfficeTechno)*

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

**CREDIT** 1

Explore and understand the duties and responsibilities most common in today's offices and gain knowledge of communication skills, information management, electronic media transmission, transcription, telephone etiquette, and computer applications that include word processing, spreadsheets, database, presentation software, and Internet.

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

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

**CREDIT** 1

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

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

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

**CREDIT** 1

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

### COMPUTER AND INFORMATION SCIENCE

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

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

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 03037255/ *Business Computer Applications 1 (BusCompAppl1)*

**PREREQUISITE/GRADE:** General Computer Applications/ Grades 9, 10, 11, 12

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 03037235/ *Business Computer Applications 2 (BusCompAppl2)*

**PREREQUISITE/GRADE:** Bus Comp Appl 1/ 9, 10, 11, 12

**CREDIT** 1

Complete projects using computer applications, including word-processing, spreadsheets, database, presentation software, and Internet. Depending on certification sought, course may cover Office 2003, Advanced Course or IC3. Take the opportunity to get an industry-recognized certification in MOS or IC3.



## Education and Training Cluster

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

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



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



# Career Cluster: Education Program of Study Teacher/Training Pathway

Learner's Name \_\_\_\_\_

Date \_\_\_\_\_

Learner's Signature \_\_\_\_\_

Advisor Signature \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_

**This plan of study should serve as a guide, along with other career planning materials, as you continue your career path.** Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

<b>High School</b>	<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
	English 1	English 2	English 3	English 4
	Algebra 1	Geometry	Algebra 2	<b>Recommended Mathematics Elective:</b> Technical Mathematics (DACC)
	Integrated Science 1	Integrated Science 2	<b>Recommended Science:</b> Dependent on Teaching Area See p.25 for Options	<b>Elective:</b>
	American Government and Economics	New Mexico History	U. S. History	World History
	<i>Foreign Language Level 1</i>	Foreign Language Level 2	Communication Skills <b>or</b> <i>Level 3 Foreign Language</i>	<b>Elective:</b>
	Physical Education/Health	<b>Recommended Elective:</b> Sociology or Psychology		
	<b>Elective:</b>	<b>Pathway Elective(s):</b> Child Development	<b>Pathway Elective(s):</b> Educational Methodology	<b>Pathway Elective(s):</b> Teacher Assisting 1 Teacher Assisting 2
	<b>Course Substitution:</b>	<b>Course Substitution</b>	<b>Course Substitution:</b>	<b>Course Substitution:</b>
<b>Career Enhancement Options</b>	<b>Work-based Learning Options</b>		<b>Short-Term Training Options</b>	<b>Dual/Articulated Credit Options</b>
	Job-Shadowing:  Internship/Mentorship:  On-The-Job Training		ParaPro Certification	<b>DACC Dual Credit Option:</b> Technical Math &  <b>DACC Articulated Credit:</b> Child Development, Educational Methodology

<b>DCCPP</b>	<b>Dual Credit Career Pathways Program</b>	
	<p>Gadsden ISD and Dona Ana Community College provide an opportunity for high school juniors and seniors who qualify to attend courses at the DACC Gadsden Educational Center and Sunland Park Educational Center. Students take courses that will apply towards their high school credits and can also be applied towards an associate degree or certification at DACC. Some courses may also transfer over to a bachelor's degree program. Courses are held Monday through Friday. Students have the option of taking a bus from their high school to the DACC closest to their school or providing their own transportation. Students choosing to use their own transportation must meet the GISD Transportation Agreement requirements. Gadsden ISD pays for books and tuition as long as the student is enrolled in one of the high schools. Information about the Dual Credit Career Pathways Program can be obtained by visiting the counseling center or the One Stop Career Center located on the campuses of Chaparral, Gadsden, and Santa Teresa High School.</p>	
<b>Post-Secondary</b>	<p><b>Dona Ana Branch Community College</b></p> <p style="text-align: center;"><b>Associate of Applied Science Degree – Program of Study - Education</b></p> <p>Communication (3 credits)  English (10 credits)  Mathematics (6 credits)  Social Science and Culture (6 credits)  Fine Arts (6 credits)  Science (12 credits)  Human Growth and Behavior (CEP 110)  Educational Psychology (CEP 210)  Freshman Orientation (EMD 101)  Introduction to Education (EMD 250)  Field Experience I (EDUC 181)  Electives (9 credits from: CEP 215, HIST 261, EDUC 368, PHIL 101G, SPED 215, EDUC 204, SPED 320, SPED 350)</p>	<p><b>New Mexico State University</b></p> <p><b>Bachelor of Science in Education</b> – Majors in Early Childhood Education, Elementary Education, and Secondary Education with endorsements in Bilingual Education, Business Education, Foreign Languages, General Sciences, Language Arts, Mathematics, Physical Education, Social Studies, TESOL, Major in Special Education, Major in Communication Disorders</p> <p><b>Program of Study</b></p> <p>Requirements of a general nature and for each endorsement are available in the advisement center of the college. It is imperative that students, especially those new to the campus, report frequently to the advisement center to have their programs carefully and continually monitored in line with newly developing requirements.</p> <p>All students henceforth will pursue a baccalaureate program leading to a Level I teaching license. Preparation for this license includes 55 credits of general education, a professional block of course work of 36 credits in elementary education or 30 credits in secondary education, teaching field specialty blocks or endorsements of 24 to 54 credits, and the remainder in electives</p>
	<p><b>Program of Study - Early Childhood Education</b></p> <p>Science (8 credits)  Mathematics (6 credits)  English &amp; Communication Arts (7 credits)  Social Sciences and Culture (3 credits)  History (6 credits)  Fine Arts (3 credits)  Critical Thinking and Analysis (3 credits)  Human Growth and Development (CEP 110G)  Child Growth, Development and Learning (ECED 115)  Health, Safety &amp; Nature (ECED 125)  Family &amp; Community Collaboration (ECED 135)  Curriculum Development &amp; Implementation I (ECED)  Practicum I (ECED 220)  Curriculum Development &amp; Implementation II (ECED 225)  Practicum II (ECED 230)  Intro to Reading &amp; Literacy Development (ECED 235)  Professionalism (ECED 245)  Assessment of Children &amp; Evaluation of Programs (ECED 255)  Guiding Young Children (ECED 265)</p>	



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## PATHWAY ELECTIVES

### FAMILY AND CONSUMER SCIENCE

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

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

**CREDIT:** 1

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

### PUBLIC, PROTECTIVE, AND SOCIAL SERVICES

**COURSE NUMBER/TITLE:** 25347253/ *Educational Methodology 1 (EducMethod1)*

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

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 25337253/ *Teacher Assisting 1 (TeachAssist1)*

**PREREQUISITE/GRADES:** Educational Methodology/ Grades 11-12

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 25337233/ *Teacher Assisting 2 (TeachAssist2)*

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

**CREDIT:** 1

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

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

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

**CREDIT:** 1

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



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

<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Sample Career Specialties / Occupations</b></p>	<p>General Manager, •Food &amp; Beverage Manager•Kitchen Manager•Catering &amp; Banquets Manager•Service Manager• Maitre'd•Restaurant Owner•Baker•Brewer• Caterer• Executive Chef•Cook•Pastry &amp; Specialty Chef• Bartender•Restaurant Server•Banquet Server•Cocktail Server•Banquet Set-Up Employee•Bus Person•Room Service Attendant• Kitchen Steward•Counter Server•Wine Steward•Host</p>	<p>Front Office Manager•Executive Housekeeper•Director of Sales &amp; Marketing•Chief Engineer•Director of Human Resources•Rooms Division Manager•Director of Security•Controller•Food &amp; Beverage Director•Resident Manager•Director of Operations•General Manager• Regional Manager•Quality Assurance Manager•Corporate Management• Lodging Management•Owner /Franchisee Administrative Support• Uniformed Services Support• Communications Supervisor•Front Desk Supervisor•Reservations Supervisor•Laundry Supervisor•Room Supervisor•Bell Captain•Shift Supervisor•Sales Professional•Night Auditor•Front Desk Employee•Valet Attendant•Bell Attendant•Door Attendant•Concierge•PBX Operator•Reservationists•Guestroom Attendant•Public Space Cleaner•Laundry Attendant•House Person•Maintenance Worker•Van Driver</p>	<p>Executive Director•Assistant Director• Director of Tourism Development•Director of Membership Development•Director of Communications•Director of Visitor Services•Director of Sales•Director of Marketing and Advertising• Director of Volunteer Services•Director of Convention and Visitors Bureau•Market Development Manager•Group Sales Manager•Events Manager• Sales Manager•Destination Manager• Convention Services Manager• Heritage Tourism Developer•Travel Agent (Commercial &amp; Vacation)•Event Planner• Meeting Planner•Special Events Producer•Nature Tourism Coordinator•Tour and Travel Coordinator•Tourism Marketing Specialist•Transportation Specialist• Welcome Center Supervisor•Visitor Center Counselor•Tourism Assistant• Executive Assistant•Tour Guide•Tour Operator • Motor Coach Operator• Tour and Ticket Reservationists• Interpreter</p>	<p>Club Manager•Club Assistant Manager•Club Instructor•Club Equipment &amp; Facility Maintenance •Club Scheduler•Club Event Planner•Club Membership Developer•Parks &amp; Gardens Director•Parks &amp; Gardens Activity Coordinator•Parks &amp; Gardens Access Management•Parks &amp; Gardens Safety &amp; Security•Parks &amp; Garden Ranger•Resort Trainer•Resort Instructor•Resort Equipment Maintenance•Resort Scheduler, Manager, Supervisor, Dealer, Slot Supervisor and Maintenance and Security &amp; Safety•Fairs/Festival Event Planner, supervisor, manager, promotional developer••Theme Parks/Amusement Parks Resale Department Manager, Retail Manager, Ride Operations Manager, Group Events Manager•Family Centers Manager, Equipment Operator/Maintenance•Historical /Cultural /Architectural Ecological Industrial Sites Guides/Ranger and Exhibit Developer•Museums/Zoos/ Aquariums Docent, Animal Trainer and Handler•and Exhibit Developer</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Pathways</b></p>	<p><b>Restaurants and Food/Beverage Services</b></p>	<p><b>Lodging</b></p>	<p><b>Travel &amp; Tourism</b></p>	<p><b>Recreation, Amusements &amp; Attractions</b></p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Cluster K&amp;S</b></p>	<p style="text-align: center;"><b>Cluster knowledge and skills</b></p> <p style="text-align: center;">◆ Academic Foundations ◆ Communications ◆ Problem Solving and Critical Thinking ◆ Information Technology Applications ◆ Systems          ◆ Safety, Health and Environmental ◆ Leadership and Teamwork ◆ Ethics and Legal Responsibilities          ◆ Employability and Career Development ◆ Technical Skills</p>			



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



# Career Cluster: Hospitality & Tourism

## Program of Study for Restaurant and Food Services Pathway

Learner's Name \_\_\_\_\_

Date \_\_\_\_\_

Learner's Signature \_\_\_\_\_

Advisor Signature \_\_\_\_\_

Parent/Guardian Signature (if required) \_\_\_\_\_

**This plan of study should serve as a guide, along with other career planning materials, as you continue your career path.** Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

<b>High School</b>	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade		
	English 1		English 2		English 3		English 4		
	Algebra 1		Geometry		Algebra 2		<b>Recommended Mathematics Elective:</b> Technical Mathematics (DACC)		
	Integrated Science 1		Integrated Science 2		<b>Recommended Science:</b> See p. 25 for Options		<b>Elective:</b>		
	American Government and Economics		New Mexico History		U. S. History		World History		
	Physical Education/ Health		<b>Elective:</b>		Communication Skills or Level 3 Foreign Language		<b>Elective:</b>		
	Foreign Language		<b>Elective:</b>		<b>Career Elective:</b>		<b>Career Elective:</b>		
	<b>Career Elective(s):</b> Nutrition 1		<b>Career Pathway Elective(s):</b> Culinary Arts		<b>Career Pathway Elective:</b> ProStart 1		<b>Career Pathway Elective:</b> ProStart 2		
	<b>Course Substitution:</b>		<b>Course Substitution:</b>		<b>Course Substitution:</b>		<b>Course Substitution:</b>		
<b>Career Enhancement Options</b>	Work-based Learning Options			Short-Term Training Options			Dual/Articulated Credit Options		
	Job-Shadowing:  Internship/Mentorship:  On-The-Job Training			Pro-Start Certification			<b>DACC Dual Credit Option:</b> Technical Math  <b>DACC Articulated Credit:</b> OEHS Food Production Principles, articulated with ProStart 1 and ProStart 2, with certification		

<b>DCCPP</b>	<b>Dual Credit Career Pathways Program</b>	
	<p>Gadsden ISD and Dona Ana Community College provide an opportunity for high school juniors and seniors who qualify to attend courses at the DACC Gadsden Educational Center and Sunland Park Educational Center. Students take courses that will apply towards their high school credits and can also be applied towards an associate degree or certification at DACC. Some courses may also transfer over to a bachelor's degree program. Courses are held Monday through Friday. Students have the option of taking a bus from their high school to the DACC closest to their school or providing their own transportation. Students choosing to use their own transportation must meet the GISD Transportation Agreement requirements. Gadsden ISD pays for books and tuition as long as the student is enrolled in one of the high schools. Information about the Dual Credit Career Pathways Program can be obtained by visiting the counseling center or the One Stop Career Center located on the campuses of Chaparral, Gadsden, and Santa Teresa High School.</p>	
<b>Post-Secondary</b>	<b>Dona Ana Branch Community College</b>	<b>New Mexico State University</b>
	<p style="text-align: center;"><b>Associate of Applied Science Degree – Facilities Technology</b></p> <p><b>Program of Study</b>          Business and Technology Communication <b>or</b> Business &amp; Professional Communication <b>or</b> Technical Scientific Communication          Principles of Macroeconomics          Accounting Procedures          Principal of Human Communication          Rhetoric and Composition          Human Relations <b>or</b> Introduction to Psychology <b>or</b> Introductory Sociology          Introduction to Microcomputer Technology <b>or</b> Computer Literacy          Resume and Employment Preparation          Legal Issues in Business          Introduction to Hospitality Industry (OEHS 201)          Food and Beverage Operations (OEHS 203)          Food and Beverage Services (OEHS 207)          Hospitality Supervision (OEHS 208)          Management Accounting for Hospitality (OEHS 209)          Cooperative Experience I/II (OEHS 221/222)          Banquet Operations (OEHS 210)          Food Production Principles (OEHS 211)          Advanced Food Preparation (OEHS 212)          Professional Baking Operations (OEHS 213)          Purchasing and Kitchen Management (OEHS 214)</p>	<p style="text-align: center;"><b>Bachelor of Science in Hotel, Restaurant and Tourism Management</b></p> <p><b>Program of Study</b>          The bachelor's degree program in Hotel, Restaurant, and Tourism Management (HRTM) prepares a student for supervisory and entry level management positions in all areas of the diverse and growing hospitality and tourism industry. The HRTM program also provides a foundation for continuing development to advance to more senior management or to pursue entrepreneurial opportunities. In this professional program, faculty, students, and industry partners bring together theory and practice to forge hospitality management excellence.</p> <p>The curriculum is designed to educate students as individuals and professionals in a changing society. HRTM students take a core curriculum until their senior year, when they specialize in one of the following three concentration areas, or develop an individualized plan with a faculty advisor for selecting professional elective courses: Hotel Management, Restaurant and Food Service Management, and Tourism Management. A grade of C or better must be earned in each upper-division HTRM class to satisfy the requirement of the major.</p>



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



## PATHWAY ELECTIVES

### FAMILY AND CONSUMER SCIENCE

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

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

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 05087252 **Culinary Arts (CulinaryArts)**

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

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 05327253/ **ProStart 1 (ProStart1)**

**PREREQUISITE/GRADE:** Nutrition 1, 2 or permission of Instructor/ Grades 10, 11, 12

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 05327233/ **ProStart 2 (ProStart2)**

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

**CREDIT** 1

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

### TECHNOLOGY EDUCATION

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

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

**CREDIT** 1

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



**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.**

<b>Sample Career Specialties/Occupations</b>	<p>Assemblers • Automated Manufacturing Technicians • Bookbinders • Calibration Technicians • Electrical Installers and Repairers • Electromechanical Equipment Assemblers • Extruding and Drawing Machine Setters/Set-Up Operators • Extrusion Machine Operators • Foundry Workers • Grinding, Lapping, and Buffing Machine Operators • Hand Packers and Packagers • Hoist and Winch Operators • Instrument Makers • Large Printing Press Machine Setters and Set-Up Operators • Machine Operators • Managers, Supervisors • Medical Appliance Makers • Milling Machine Setters, Set-Up Operators • Millwrights • Operators, Tenders, Cutters/Brazers, Soldering, Machine Operations • Painters • Pattern &amp; Model Makers • Precision Layout Workers • Precision Optical Goods Workers • Production Associates • Sheet Metal Workers • Solderers and Brazers • Tool and Die Makers • Welders</p>	<p>Design Engineers • Electrical and Electronic Technicians and Technologists • Electronics Engineers • Engineering and Related Technicians and Technologists • Engineering Technicians • Industrial Engineers • Labor Relations Managers • Manufacturing Engineers • Manufacturing Technicians • Power Generating and Reactor Plant Operators • Precision Inspectors, Testers, and Graders • Process Improvement Technicians • Production Managers • Purchasing Agents Supervisors</p>	<p>Biomedical Equipment Technicians • Boilermakers • Communication System Installers/Repairers • Computer Installers/Repairers • Computer Maintenance Technicians • Electrical Equipment • Installers/Repairers • Facility Electricians • Industrial Electronic • Installers/Repairers • Industrial Facilities Managers • Industrial Machinery Mechanics • Industrial Maintenance Electricians • Industrial Maintenance Mechanics • Industrial Maintenance Technicians • Instrument Calibration and Repairers • Instrument Control Technicians • Job/Fixture Designers Laser Systems Technicians • Maintenance Repairers • Major Appliance Repairers • Meter Installers/Repairers • Millwrights Plumbers, Pipe Fitters and Steam Fitters • Security System Installers/ Repairers</p>	<p>Calibration Technicians • Inspectors • Lab Technicians • Process Control Technicians • Quality Control Technicians • Quality Engineers • SPC Coordinators</p>	<p>Communications, Transportation and Utilities Managers • Dispatchers • Freight, Stock, and Material Movers • Industrial Truck and Tractor Operators • Logistical Engineers • Logisticians Material Associates • Material Handlers • Material Movers • Process Improvement Technicians • Quality Control Technicians • Traffic Managers • Traffic, Shipping, and Receiving Clerks</p>	<p>Environmental Engineers • Environmental Specialists • Health and Safety Representatives • Safety Coordinators • Safety Engineers • Safety Team Leaders • Safety Technicians</p>
	<b>Pathways</b>	<b>Production</b>	<b>Manufacturing Production Process Development</b>	<b>Maintenance, Installation &amp; Repair</b>	<b>Quality Assurance</b>	<b>Logistics &amp; Inventory Control</b>
<b>Cluster K &amp; S</b>	<p><b>Cluster Knowledge and Skills</b></p> <p>◆ Academic Foundations ◆ Communications ◆ Problem Solving and Critical Thinking ◆ Information Technology Applications ◆ Systems            ◆ Safety, Health and Environmental ◆ Leadership and Teamwork ◆ Ethics and Legal Responsibilities            ◆ Employability and Career Development ◆ Technical Skills</p>					



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



# Career Cluster: Manufacturing

## Program of Study: Manufacturing Technology

Learner's Name \_\_\_\_\_ Date \_\_\_\_\_

Learner's Signature \_\_\_\_\_ Advisor Signature \_\_\_\_\_

Parent/Guardian Signature (if required) \_\_\_\_\_

**This plan of study should serve as a guide, along with other career planning materials, as you continue your career path.** Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

		9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade	
High School		English 1	English 2	English 3	English 4	
		Algebra 1	Geometry	Algebra 2	<b>Recommended Mathematics Elective:</b> Technical Mathematics (DACC)	
		Integrated Science 1	Integrated Science 2	<b>Recommended Science:</b> Physics or Chemistry; See p.25 for Options		<b>Elective:</b>
		American Government and Economics	New Mexico History	U.S. History/Geography		World History/Geography
		Foreign Language Level 1	Foreign Language Level 2	Communication Skills or Level 3 Foreign Language		
		Physical Education 1	<b>Recommended Career Elective:</b>  Drafting 1	<b>DACC Bridges Program Classes:</b> *Blueprint Reading                      *Materials and Processes *Industrial Electricity                   *Manufacturing Systems *General Technology Education      *Technology Education – Related Subject		
		<b>Elective:</b>	<b>Elective:</b>	<b>These courses are taken at DACC</b>		
		<b>Course Substitution</b>	<b>Course Substitution</b>	<b>Course Substitution</b>	<b>Course Substitution</b>	
		<b>Work-based Learning Options</b>	<b>Short-Term Training Options</b>		<b>Dual/Articulated Credit Options</b>	
Career Enhancement Options		Job-Shadowing:  Internship/Mentorship:  On-The-Job Training	DACC Certificate		Dual Credit: Bridges Courses  Articulated Credit: Technical Math and Drafting 1	

<b>DCCPP</b>	<b>Dual Credit Career Pathways Program</b>	
	<p>Gadsden ISD and Dona Ana Community College provide an opportunity for high school juniors and seniors who qualify to attend courses at the DACC Gadsden Educational Center and Sunland Park Educational Center. Students take courses that will apply towards their high school credits and can also be applied towards an associate degree or certification at DACC. Some courses may also transfer over to a bachelor's degree program. Courses are held Monday through Friday. Students have the option of taking a bus from their high school to the DACC closest to their school or providing their own transportation. Students choosing to use their own transportation must meet the GISD Transportation Agreement requirements. Gadsden ISD pays for books and tuition as long as the student is enrolled in one of the high schools. Information about the Dual Credit Career Pathways Program can be obtained by visiting the counseling center or the One Stop Career Center located on the campuses of Chaparral, Gadsden, and Santa Teresa High School.</p>	
<b>Post-Secondary</b>	<b>Dona Ana Branch Community College</b>	<b>New Mexico State University</b>
	<p style="text-align: center;"><b>Associates of Applied Science Degree in Automation and Manufacturing Technology</b></p> <p><b>Program of Study</b>  Comm255G, Public Speaking or  COMM 265G, Principals of Human Communication  Eng111G, Rhetoric and Composition  ENGL 218G, Technical &amp; Scientific Communication or  BOT 209, Business and Technical Communication  OEBU 240, Human Relations or  PSY 201G, Introduction to Psychology or  SOC 101G, Introduction to Sociology  OEES 110, Electronics I  OEES 120, Mathematics for Electronics  OEES 135, Electronics II  OEES 160, Digital Electronics I  OEES 205, Semiconductor Devices  OETS 180, Applied Industrial Chemistry or  CHEM 110G, Principles and Application of Chemistry  OETS 190, Physics for Technicians, or  PHYS 211/211L, General Physics I/Lab  OEMG 105, Introduction to Manufacturing  OEMG 115, Print Reading for Industry  OEMG 205, Statistical Process Control for  Manufacturing Technicians  OEMG 220, Vacuum Systems  OEMG 230, Power RF  OEMG 235, Programmable Logic Controllers Pneumatics  OEMG 240, Electromechanical Devices  OEMG 245, Electromechanical Systems  OEMG 250, Semiconductor Mfg. Technology I  OEMG 251, Semiconductor Mfg. Technology II  OEMG 265, Special Topics: Basic Systems Networking  OEMG 265, Special Topics: System Interface Devices</p>	<p style="text-align: center;"><b>Bachelor of Science in Engineering Technology, Mechanical Technology, or Engineering Related Field</b></p> <p><b>Program of Study</b>  Engineering technology education places an emphasis on the practical application of engineering principles and methods. Engineering technology graduates have employment opportunities in areas such as product and systems development, manufacturing, technical and project management, construction, facilities planning and operation, and testing.  Lists of course equivalencies are available for students transferring to NMSU from most New Mexico and some out-of-state institutions. In addition, the department has some extended articulation agreements or can provide a method of validation of transfer coursework in many technical subject areas. The department requires that at least 21 credits specifically in the transfer student's program must be earned in residence at the main campus of NMSU. General degree requirements of the College of Engineering and university apply to students in the Department of Engineering Technology.  The department also offers associate degree programs in Electronics and Computer, Mechanical and Civil Engineering Technology.</p>







## PATHWAY ELECTIVES

### CONSTRUCTION TRADES

**COURSE NUMBER/TITLE:** 04449254/ *Industrial Electricity (IndusElectric)*  
**PREREQUISITE/GRADE:** Enrolled at DABCC Manufacturing Technology  
**CREDIT:** 1

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

### DRAFTING

**COURSE NUMBER/TITLE:** 07139254/ *Blueprint Reading—Related Subjects (BluePrint)*  
**PREREQUISITE/GRADE:** Enrolled at DABCC Manufacturing Technology  
**CREDIT:** 1

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

### TECHNOLOGY EDUCATION

**COURSE NUMBER/TITLE:** 16119254/ *General Technology Education (GenTechEduc)*  
**PREREQUISITE/GRADES:** Enrolled at DABCC Manufacturing Technology  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 16129254/ *Materials and Processes (MatProcesses)*  
**PREREQUISITE/GRADES:** Enrolled at DABCC Manufacturing Technology  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 16249254/ *Manufacturing Systems (ManuSystems)*  
**PREREQUISITE/GRADES:** Enrolled at DABCC Manufacturing Technology  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 16959254/ *Technology Education—Related Subjects (TechEdRelated)*  
**PREREQUISITE/GRADES:** Enrolled at DABCC Manufacturing Technology  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 16067230/ *Work Experience (Pathway Only) (CPWorkExper)*  
**PREREQUISITE/GRADE:** Teacher Approval/ Grades 11, 12  
**CREDIT:** 1

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



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

Sample of Career Specialties / Occupations	<p><b>Air/Space Transportation:</b>          Transportation managers—air * Airplane pilots/copilots * Commercial pilots * Flight engineers * Flight attendants * Dispatchers-air * Traffic managers * Air traffic controllers * Aircraft cargo handling supervisors * Airfield operations specialists * Other airlines operations and support jobs</p> <p><b>Rail Transportation:</b>          Transportation managers---rail * Dispatchers-rail * Traffic managers * Locomotive engineers, * Locomotive firers * Railway conductors and yardmasters * Railroad brake, signal and switch operators (including train crew members and yard workers) * Railyard engineers, dinky operators, and hostlers * Other railyard and terminal operations and support jobs</p> <p><b>Water Transportation:</b>          Transportation managers—water * Dispatchers—water * Traffic managers * Captains * Mates * Pilots of water vessels * Sailors and marine oilers * Able seamen * Ordinary seamen * Ship and boat captains * Ship engineers * Motorboat operators * Bridge and lock tenders * Other port/harbor/waterway/marina operations and support jobs</p> <p><b>Road Transportation</b>          Transportation managers—road * Dispatchers--Truck/bus/taxi, traffic managers * Truck drivers-heavy * Truck drivers-tractor-trailer * Truck drivers—light or delivery services * Bus drivers-transit and intercity * Bus drivers-school * Taxi drivers and chauffeurs * Truck/bus/taxi terminal operations and support jobs</p> <p><b>Transit Systems:</b>          Transportation managers—mass transit * Dispatchers-bus * Traffic managers          Dispatchers-rail * Traffic managers * Bus drivers—transit and intercity * Subway and streetcar operators * Other terminal operations and support jobs</p>	<p>Logisticians *          Logistics managers *          Logistics Engineers *          Logistics analysts *          Logistics consultants *          International logistics</p>	<p>Warehouse managers *          Storage and distribution managers *          Industrial and packaging engineers *          Traffic, shipping and receiving clerks *          Production, planning, expediting clerks *          First-line supervisors/managers of helpers *          Laborers, and material movers-hand *          First-line supervisors/managers of transportation and material-moving machine and vehicle operators *          Laborers and freight, stock and material movers, hand *          Car, truck and ship loaders *          Packers and packagers-hand *          Other packaging/packing /material handling and moving jobs</p>	<p><b>Facility:</b> Facility maintenance managers and engineers * Industrial equipment mechanics * Industrial electricians, * Electrical/electronic technicians * Other facility/terminal maintenance jobs</p> <p><b>Mobile Equipment:</b>  <u>General</u>--Mobile equipment maintenance managers * Electrical and electronic installers and repairers—transportation equipment * Mobile heavy equipment mechanics  <u>Air/Space</u>—Aerospace engineering and operations technicians * Aircraft mechanics and service technicians * Airframe mechanics * Power plant mechanics * Aircraft engine specialists * Aircraft body and bonded structure repairers * Avionics technicians.  <u>Water</u>—Motorboat mechanics * Ship mechanics and repairers * Motorboat mechanics * Automotive/truck mechanics and body repairers  <u>Rail</u>—Rail car repairers * Signal and track switch repairers * Rail locomotive and car mechanics and repairers  <u>Road</u>—Electronic equipment installers and repairers—motor vehicle * Automotive body and related repairers * Automotive glass installers and repairers * Automotive service technicians and mechanics * Automotive master mechanics * Automotive specialty technicians * Bus and truck mechanics and diesel engine specialists * Motorcycle mechanics * Bicycle repairers * Tire repairers and changers</p>	<p><b>General—Intermodal--</b>          Urban and regional planners * Civil engineers * Engineering technicians * Surveying and mapping technicians * Government service executives * Environmental compliance inspectors  <u>Air/Space</u>—Air traffic controllers * Aviation inspectors  <u>Road</u>—Traffic engineers * Traffic technicians * Motor vehicle inspectors * Freight inspectors,  <u>Rail</u>—Railroad inspectors  <u>Water</u>—Marine cargo inspectors * Vessel traffic control specialists  <u>Transit</u>—Public transportation inspectors  <u>Other</u>---Other government agency managers * Regulators * Inspectors, other federal/state/local transportation agency jobs</p>	<p>Health and safety managers * Industrial health and safety engineers * Environmental scientists and specialists * Environmental science and protection technicians * Environmental managers and engineers * Environmental compliance inspectors * Safety analysts</p>	<p>Marketing managers, *          Sales managers *          Sales representatives— transportation/logistics services * Reservation, travel and transportation agents/clerks * Cargo and freight agents * Customer service managers, * Customer service representatives * Customer order and billing clerks * Cashiers, counter and rental clerks</p>
Pathways	Transportation Operations	Logistics Planning and Management Services	Warehousing and Distribution Center Operations	Facility and Mobile Equipment Maintenance	Transportation Systems/ Infrastructure Planning, Management, and Regulation	Health, Safety and Environmental Management	Sales and Service
Cluster	<p style="text-align: center;"><b>Cluster knowledge and skills</b></p> <p style="text-align: center;">◆ Academic Foundations ◆ Communications ◆ Problem Solving and Critical Thinking ◆ Information Technology Applications ◆ Systems          ◆ Safety, Health and Environmental ◆ Leadership and Teamwork ◆ Ethics and Legal Responsibilities          ◆ Employability and Career Development ◆ Technical Skills</p>						



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



# Career Cluster: Transportation, Distribution & Logistics

## Program of Study for Facility and Mobile Equipment Pathway

Learner's Name \_\_\_\_\_

Date \_\_\_\_\_

Learner's Signature \_\_\_\_\_

Advisor Signature \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

<b>High School</b>	<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
	English 1	English 2	English 3	English 4
	Algebra 1	Geometry	Algebra 2	<b>Recommended Mathematics Elective:</b> <i>Technical Mathematics (DACC)</i>
	Integrated Science 1	Integrated Science 2	<b>Recommended Science:</b> Physics - <i>See p. 25 for Options</i>	<b>Elective</b>
	American Government and Economics	New Mexico History	U.S. History/Geography	World History/Geography
	Foreign Language Level 1	Foreign Language Level 2	Communication Skills <b>or</b> Level 3 Foreign Language	<b>Elective:</b>
	<i>Physical Education 1</i>	<b>Elective:</b>	<b>Elective:</b>	<b>Elective:</b>
	<b>Recommended Career Elective:</b> Introduction to Automobile	<b>Pathway Elective:</b> Automotive Technology (Comprehensive 1)	<b>Pathway Elective:</b> Automotive Technology (Comprehensive 2) Automotive Technology (Comprehensive 3)	<b>Pathway Elective:</b> Particular Topics In Automotive Technology 1 Particular Topics in Automotive Technology 2
	<b>Course Substitution</b>	<b>Course Substitution</b>	<b>Course Substitution</b>	<b>Course Substitution</b>
<b>Career Enhancement Options</b>	<b>Work-based Learning Options</b>		<b>Short-Term Training Options/Certificates</b>	
	Job-Shadowing:  Internship/Mentorship:  On-The-Job Training		ASE Certificates	
		<b>Dual/Articulated Credit Options</b>		
		<b>Articulated Credit:</b> Technical Mathematics		

<b>DCCPP</b>	<b>Dual Credit Career Pathways Program</b>	
	<p>Gadsden ISD and Dona Ana Community College provide an opportunity for high school juniors and seniors who qualify to attend courses at the DACC Gadsden Educational Center and Sunland Park Educational Center. Students take courses that will apply towards their high school credits and can also be applied towards an associate degree or certification at DACC. Some courses may also transfer over to a bachelor's degree program. Courses are held Monday through Friday. Students have the option of taking a bus from their high school to the DACC closest to their school or providing their own transportation. Students choosing to use their own transportation must meet the GISD Transportation Agreement requirements. Gadsden ISD pays for books and tuition as long as the student is enrolled in one of the high schools. Information about the Dual Credit Career Pathways Program can be obtained by visiting the counseling center or the One Stop Career Center located on the campuses of Chaparral, Gadsden, and Santa Teresa High School.</p>	
<b>Post-Secondary</b>	<b>Dona Ana Branch Community College</b>	<b>New Mexico State University</b>
	<p style="text-align: center;"><b>Associate of Applied Science Degree – Facilities Technology</b></p> <p><b>Program of Study</b>          Business and Technology Communication <b>or</b> Technical Scientific Communication          Public Speaking <b>or</b> Principal of Human Communication Rhetoric and Composition          Human Relations <b>or</b> Introduction to Psychology <b>or</b> Introductory Sociology          Introduction to Microcomputer Technology <b>or</b> Computer Applications for Technicians          Mathematics for Technicians          Finding and Maintaining Employment          Approved Electives (3 credits)          Approved OEBU Electives (3 credits)          Basic Gasoline Engines (OEAT 112)          Electronics Analysis and Tune-up of Gasoline Engines (OEAT 117)          Basic Power Trains (OEAT 119)          Electrical Systems (OEAT 120)          Brakes (OEAT 125)          Suspension, Steering, and Alignment (OEAT 126)          Basic Automatic Transmission (OEAT 127) <b>or</b> Automotive Air Conditioning and Heat Systems (OEAT 132)          Fuel Systems and Emission Controls (OEAT 137)          Cooperative Experience (OEAT 221)</p>	<p><b>Bachelor of Science in Engineering Technology Program of Study</b>          Engineering Technology Education places an emphasis on the practical application of engineering principles and methods. Engineering technology graduates have employment opportunities in areas such as: product and systems development, manufacturing, technical and project management, construction, facilities planning and operations, and testing.</p> <p>Lists of course equivalencies are available for students transferring to NMSU from most New Mexico and some out of state institutions. In addition, the department has some extended articulation agreements or can provide a method of validation of transferred course work in many technical subject areas. The department requires that at least 21 credits specifically in the transfer students' program must be earned in residence at the main campus of NMSU. General degree requirements of the College of Engineering and university apply to students in the Department of Engineering Technology.</p> <p>The department also offers associate degree programs in Electronics and Computer, Mechanical, and Civil Engineering Technology.</p>



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



## PATHWAY ELECTIVES

### ENERGY, POWER, AND TRANSPORTATION TECHNOLOGIES

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

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

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 09127252/*Automotive Technology—Comprehensive 1 (AutoTech1)*

**PREREQUISITE/GRADE:** Auto Tech I/ Grades 10, 11, 12 **Fall Semester Only**

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 09127232/*Automotive Technology—Comprehensive 2 (AutoTech2)*

**PREREQUISITE/GRADE:** Auto Tech II/ Grades 11, 12 **Spring Semester Only**

**CREDIT** 1

Learn and work on computer command control, fuel injection, distributorless ignition systems, automatic transmission, automotive air conditioning, and diesel engines. Diagnose problems with the latest technology. Refine knowledge of Skills USA in order to be eligible to participate at state/nationals competition and possibly win scholarships. Curriculum is ASE/ Auto Service Excellence.

**COURSE NUMBER/TITLE:** 09137252/*Particular Topics in Automotive Technology 1 (ParTopAuto1)*

**PREREQUISITE/GRADE:** Auto Tech III/ Grade 12 **Spring Semester Only**

**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 09137232/*Particular Topics in Automotive Technology 2 (ParTopAuto2)*

**PREREQUISITE/GRADE:** Auto Tech III/ Grade 12 **Fall Semester Only**

**CREDIT** 1

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

### TECHNOLOGY EDUCATION

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

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

**CREDIT** 1

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


## *Design Your Own Pathway!*

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

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

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

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


 Agriculture, Food and Natural Resources


 Arts, Audio-Video Technology, & Communications

 Finance

 Government

 Health

 Human Services

 Information Technology

 Law, Public Safety & Security

 Marketing Sales & Service

→ Science, Technology & Engineering

# Career Cluster: \_\_\_\_\_

## Template for "Design Your Own Pathway"

Learner's Name \_\_\_\_\_

Date \_\_\_\_\_

Learner's Signature \_\_\_\_\_

Advisor Signature \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

<b>High School</b>	<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
	English 1	English 2	English 3	English 4
	Algebra 1	Geometry	Algebra 2	<b>Recommended Math:</b>
	Integrated Science 1	Integrated Science 2	<b>Recommended Science</b> (See p. 25 for Option )	<b>Recommended Science</b> (See p. 25 for Options)
	American Government and Economics	New Mexico History	U. S. History	World History
	Physical Education/Health	<b>Elective:</b>	Communication Skills <b>or</b> Level 3 Foreign Language	<b>Elective:</b>
	Foreign Language – Level 1	Foreign Language – Level 2	<b>Elective:</b>	<b>Elective:</b>
	<b>Elective:</b>	<b>Elective:</b>	<b>Elective:</b>	<b>Elective:</b>
	<b>Course Substitution:</b>	<b>Course Substitution:</b>	<b>Course Substitution:</b>	<b>Course Substitution:</b>
<b>Career Enhancement Options</b>	<b>Work-based Learning Options</b>		<b>Short-Term Training Options/Certificates</b>	<b>Dual/Articulated Credit Options</b>
	Job-Shadowing:  Internship/Mentorship:  On-The-Job Training			



**DCCPP**

**Dual Credit Career Pathways Program**

Gadsden ISD and Dona Ana Community College provide an opportunity for high school juniors and seniors who qualify to attend courses at the DACC Gadsden Educational Center and Sunland Park Educational Center. Students take courses that will apply towards their high school credits and can also be applied towards an associate degree or certification at DACC. Some courses may also transfer over to a bachelor's degree program. Courses are held Monday through Friday. Students have the option of taking a bus from their high school to the DACC closest to their school or providing their own transportation. Students choosing to use their own transportation must meet the GISD Transportation Agreement requirements. Gadsden ISD pays for books and tuition as long as the student is enrolled in one of the high schools. Information about the Dual Credit Career Pathways Program can be obtained by visiting the counseling center or the One Stop Career Center located on the campuses of Chaparral, Gadsden, and Santa Teresa High School.

**Post-Secondary**

**Dona Ana Branch Community College**

**New Mexico State University**



# Arts, A/V Technology & Communications

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

<b>Sample Career Specialties/Occupations</b>	<ul style="list-style-type: none"> <li>◆ Video Systems Technicians</li> <li>◆ Video Graphics, Special Effects, and Animation</li> <li>◆ Audio-Video Designers and Engineers</li> <li>◆ Technical Computer Support Technicians, State, Film, Video, and DVD</li> <li>◆ Audio-Video System Service Technicians</li> <li>◆ Audio Systems Technicians</li> </ul>	<ul style="list-style-type: none"> <li>◆ Graphics and Printing Equipment Operators</li> <li>◆ Lithographers and Platemakers</li> <li>◆ Computer Typography and Composition Equipment Operators</li> <li>◆ Desktop Publishing Specialists; Web Page Designers</li> </ul>	<ul style="list-style-type: none"> <li>◆ Commercial Photographers, Digital, Still, Video, Film</li> <li>◆ Interior Designers, Commercial/Residential and Home Furnishings coordinators</li> <li>◆ Graphic Designers, CAD Technicians, and Fashion Illustrators</li> <li>◆ Textile Designers</li> <li>◆ Commercial Artists, Illustrators, and Artists, all Media</li> <li>◆ Curators and Gallery Managers</li> <li>◆ Fashion Designers</li> </ul>	<ul style="list-style-type: none"> <li>◆ Production Managers, Digital, Video, Stage</li> <li>◆ Cinematographers, Film/Video Editors</li> <li>◆ Dancers</li> <li>◆ Play Writers, Screen Writers, Screen Editors, Script Writers</li> <li>◆ Directors and Coaches, Performers, actors, Musicians</li> <li>◆ Make-Up Artists and Costume Designers</li> <li>◆ Stagecraft Designers, Lighters, Sets, Sound Effects, Acoustics, Painters</li> <li>◆ Composers, Conductors, and Music Instructors</li> </ul>	<ul style="list-style-type: none"> <li>◆ Audio/Video Operations, Control Room Technician</li> <li>◆ Station Mangers and Radio &amp; TV Announcers</li> <li>◆ Publishers, Editors, and Journalists and Reporters, Print, Broadcast, Other</li> <li>◆ Broadcast Technicians</li> </ul>	<ul style="list-style-type: none"> <li>◆ Telecommunication Technicians</li> <li>◆ Telecommunication Equipment, Cable, Line Repairers/Installers</li> <li>◆ Telecommunication Computer Programmers, and Systems Analysts</li> </ul>
<b>Pathways</b>	<b>Audio and Video Technologies</b>	<b>Printing Technologies</b>	<b>Visual Arts</b>	<b>Performing Arts</b>	<b>Journalism and Broadcasting</b>	<b>Telecommunications Technologies</b>
<b>Cluster K&amp;S</b>	<p style="text-align: center;"><b>Cluster Knowledge and Skills</b></p> <ul style="list-style-type: none"> <li>◆ Academic Foundations ◆ Communications ◆ Problem Solving and Critical Thinking ◆ Information Technology Applications ◆ Systems</li> <li>◆ Safety, Health and Environmental ◆ Leadership and Teamwork ◆ Ethics and Legal Responsibilities</li> <li>◆ Employability and Career Development ◆ Technical Skills</li> </ul>					



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



## PATHWAY ELECTIVES

### FINE AND PERFORMING ARTS

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

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

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

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

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

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

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

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

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

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

**CREDIT:** 1 *Can be taken 4 times for credit*

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

**COURSE NUMBER/TITLE:** 11284921/ **Guitar (Guitar)**

**PREREQUISITE/GRADES:** Guitar, Methods Book/ Grades 9, 10, 11, 12

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

Learn the fundamentals of music and guitar. Learn playing techniques, such as strumming and chords, and advanced playing techniques.

**COURSE NUMBER/TITLE:** 11274921/ **Piano (Piano)**

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

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

Learn the fundamentals of music and basic keyboard techniques such as scales, chords, and melodic lines, and more advanced keyboard techniques.

**COURSE NUMBER/TITLE:** 11414921/ **Music Theory (MusicTheory)**

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

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

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

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

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

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 11304922/ **Chorus (Concert Choir) (ConcertChoir)**  
**PREREQUISITE/GRADES:** Teacher Recommendation/ Grades 9, 10, 11, 12  
**CREDIT:** 1 *Can be taken four times for credit*  
Enjoy the opportunity to sing a variety of choral literature styles for mixed voices and develop vocal technique and the ability to sing 3-4 parts in a group. Perform in seasonal concerts, school functions, and district/regional venues.

**COURSE NUMBER/TITLE:** 11314912/ **Vocal Ensemble (VocEnsemble)**  
**PREREQUISITE/GRADES:** Audition & Instructor Approval/ Gr. 9, 10, 11, 12 **Spring semester only**  
**CREDIT:** 1 *Can be taken four times for credit*  
Develop vocal techniques and the ability to sing parts in small ensemble or madrigal groups. Also, develop solo singing ability and learn one or several ensemble literature styles. Perform in seasonal concerts, school functions, and district/regional venues.

**COURSE NUMBER/TITLE:** 11324912/ **Individual Technique (IndivTech)**  
**PREREQUISITE/GRADES:** Audition & Instructor Approval/ Grades 11, 12 **Fall semester only**  
**CREDIT:** 1  
Develop and refine your vocal technique further, with a focus on solo singing. Perform in seasonal concerts, school functions, and district/regional venues.

**COURSE NUMBER/TITLE:** 11614925/11612925/ **Creative Art—Comprehensive (CreatArtComp)**  
**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12  
**CREDIT:** 1  
Explore an art form, learn to create individual works of art, and discover career opportunities in the art world. Learn the language, materials, and processes of a particular art form, design elements, and principles supporting a work of art. Become more adept and develop your own artistic style. The course focus is on creation; however, the study of major artists, art movements, and styles may also be included.

**COURSE NUMBER/TITLE:** 11624921/ **Creative Art—Drawing & Painting 1 (CreatArt2)**  
**PREREQUISITE/GRADES:** Creative Art-Comprehensive/ Grades 9, 10, 11, 12  
**CREDIT:** 1  
Build on topics learned in creative art one with a focus on drawing and painting, working with several media (such as pen and ink, pencil, chalk, watercolor, temper, oils, and acrylics, and so on).

**COURSE NUMBER/TITLE:** 11624925/ **Creative Art—Drawing & Painting 2 (CreatArt3)**  
**PREREQUISITE/GRADES:** Creative Art-Drawing and Painting 1/ Grades 9, 10, 11, 12,  
**CREDIT:** 1  
Focus on developing your own style by creating independent projects, with teacher approval.

**COURSE NUMBER/TITLE:** 11114128/ **Introduction to Theatre (IntroTheatre)**  
**PREREQUISITE/GRADES:** None/ Grades 9, 10, 11, 12  
**CREDIT:** 1  
Explore the use your bodies and voices to create characters on stage. Learn how to bring the written word, whether poetry or prose, to life. Develop the self-confidence to perform in front of an audience, done in front of the class both as part of a group and individually.

**COURSE NUMBER/TITLE:** 11124121/ **Drama/Stagecraft 1 (DramaStage1)**  
**PREREQUISITE/GRADES:** Intro to Theatre/ Grades 9, 10, 11, 12  
**CREDIT:** 1  
Improve acting, technical skills, and knowledge of theatrical history through ensembles that create performances for public audiences of various ages.

**COURSE NUMBER/TITLE:** 11124120/ *Drama/Stagecraft 2 (DramaStage2)*

**PREREQUISITE/GRADES:** Theatre I/ Grades 10, 11, 12

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 11134111/ *Drama—Acting/Performance 3 (DramaActing3)*

**PREREQUISITE/GRADE:** Theatre 2/ Grades 10, 11, 12

**CREDIT:** 1

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

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

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

**CREDIT:** 1

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

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

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

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 11034925/ *Expressive Movement (Flags) (ExprMoveFlags)*

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

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

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

## MASS COMMUNICATION

**COURSE NUMBER/TITLE:** 19034921/ *Journalism—Yearbook (JourYearbook)*

**PREREQUISITE/GRADES:** Teacher Recommendation

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

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



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

<b>Sample Career Specialities/Occupations</b>	<ul style="list-style-type: none"> <li>◆ Acupuncturist</li> <li>◆ Anesthesiologist Assistant</li> <li>◆ Art / Music / Dance Therapist(s)</li> <li>◆ Athletic Trainer</li> <li>◆ Audiologist</li> <li>◆ Certified Nursing Assistant</li> <li>◆ Chiropractor</li> <li>◆ Dental Assistant / Hygienist</li> <li>◆ Dental Lab Technician</li> <li>◆ Dentist</li> <li>◆ Dietician</li> <li>◆ Dosimetrist</li> <li>◆ EMT</li> <li>◆ Exercise Physiologist</li> <li>◆ Home Health Aide</li> <li>◆ Kinesiotherapist</li> <li>◆ Licensed Practical Nurse</li> <li>◆ Massage Therapist</li> <li>◆ Medical Assistant</li> <li>◆ Mortician</li> <li>◆ Occupational Therapist / Asst</li> <li>◆ Ophthalmic Medical Personnel</li> <li>◆ Optometrist</li> <li>◆ Orthotist/Prosthetist</li> <li>◆ Paramedic</li> <li>◆ Pharmacist/Pharmacy Tech</li> <li>◆ Physical Therapist / Assistant</li> <li>◆ Physician (MD/DO)</li> <li>◆ Physician's Assistant</li> <li>◆ Psychologist</li> <li>◆ Recreation Therapist</li> <li>◆ Registered Nurse</li> <li>◆ Respiratory Therapist</li> <li>◆ Social Worker</li> <li>◆ Speech Language Pathologist</li> <li>◆ Surgical Technician</li> <li>◆ Veterinarian / Vet Tech</li> </ul>	<ul style="list-style-type: none"> <li>◆ Cardiovascular Technologist</li> <li>◆ Clinical Lab Technician</li> <li>◆ Computer Tomography (CT) Technologist</li> <li>◆ Cytogenetic Technologist</li> <li>◆ Cytotechnologists</li> <li>◆ Diagnostic Medical Sonographers</li> <li>◆ Electrocardiographic (ECG) Technician</li> <li>◆ Electronic Diagnostic (EEG) Technologist</li> <li>◆ Exercise Physiologist</li> <li>◆ Geneticist</li> <li>◆ Histotechnician</li> <li>◆ Histotechnologist</li> <li>◆ Magnetic Resonance (MR) Technologist</li> <li>◆ Mammographer</li> <li>◆ Medical Technologist / Clinical Laboratory Scientist</li> <li>◆ Nuclear Medicine Technologist</li> <li>◆ Nutritionist</li> <li>◆ Pathologist</li> <li>◆ Pathology Assistant</li> <li>◆ Phlebotomist</li> <li>◆ Positron Emission Tomography (PET) Technologist</li> <li>◆ RadiologicTechnologist/Radiographer</li> <li>◆ Radiologist</li> </ul>	<ul style="list-style-type: none"> <li>◆ Admitting Clerk</li> <li>◆ Applied Researcher</li> <li>◆ Community Services Specialists</li> <li>◆ Data Analyst</li> <li>◆ Epidemiologist (SHSMD Stratsociety.org)</li> <li>◆ Ethicist</li> <li>◆ Health Educator</li> <li>◆ Health Information Coder</li> <li>◆ Health Information Services</li> <li>◆ Healthcare Administrator</li> <li>◆ Medical Assistant</li> <li>◆ Medical Biller/Patient Financial Services</li> <li>◆ Medical Information Technologist</li> <li>◆ Medical Librarian/Cybrarian</li> <li>◆ Patient Advocates</li> <li>◆ Public Health Educator</li> <li>◆ Reimbursement Specialist (HFMA)</li> <li>◆ Risk Management</li> <li>◆ Social Worker</li> <li>◆ Transcriptionist</li> <li>◆ Unit Coordinator</li> <li>◆ Utilization Manager</li> </ul>	<ul style="list-style-type: none"> <li>◆ Biomedical / Clinical Engineer</li> <li>◆ Biomedical / Clinical Technician</li> <li>◆ Central Services</li> <li>◆ Environmental Health and Safety</li> <li>◆ Environmental Services</li> <li>◆ Facilities Manager</li> <li>◆ Food Service</li> <li>◆ Hospital Maintenance Engineer</li> <li>◆ Industrial Hygienist</li> <li>◆ Materials Management</li> <li>◆ Transport Technician</li> </ul>	<ul style="list-style-type: none"> <li>◆ Biochemist</li> <li>◆ Bioinformatics Associate</li> <li>◆ Bioinformatics Scientist</li> <li>◆ Bioinformatics Specialist</li> <li>◆ Biomedical Chemist</li> <li>◆ Biostatistician</li> <li>◆ Cell Biologist</li> <li>◆ Clinical Trials Research Associate</li> <li>◆ Clinical Trials Research Coordinator</li> <li>◆ Geneticist</li> <li>◆ Lab Assistant-Genetics</li> <li>◆ Lab Technician</li> <li>◆ Microbiologist</li> <li>◆ Molecular Biologist</li> <li>◆ Pharmaceutical Scientist</li> <li>◆ Quality Assurance Technician</li> <li>◆ Quality Control Technician</li> <li>◆ Regulatory Affairs Specialist</li> <li>◆ Research Assistant</li> <li>◆ Research Associate</li> <li>◆ Research Scientist</li> <li>◆ Toxicologist</li> </ul>
	<b>Path ways</b>	<b>Therapeutic Services</b>	<b>Diagnostics Services</b>	<b>Health Informatics</b>	<b>Support Services</b>
<b>Cluster K &amp; S</b>	<b>Cluster Knowledge and Skills</b> ◆ Academic Foundation ◆ Communications ◆ Systems ◆ Employability Skills ◆ Legal Responsibilities ◆ Ethics ◆ Safety Practices ◆ Teamwork ◆ Health Maintenance Practices ◆ Technical Skills ◆ Information Technology Applications				



## PATHWAY ELECTIVES

### ATHLETICS

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

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

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

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

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

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

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

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

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

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

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

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

#### FAMILY AND CONSUMER SCIENCE

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

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

**CREDIT** 1

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

#### LIFE AND PHYSICAL SCIENCES

**COURSE NUMBER/TITLE:** 17124114/17122113/ ***Biology—Advanced Studies (BiolAdvStud)***

**PREREQUISITE/GRADE:** Integr. Sci. 1 & 2/ Grades 9, 10, 11, 12

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 17234114/ ***Chemistry—Advanced Studies (ChemAdvStud)***

**PREREQUISITE/GRADE:** Algebra I, Integr. Sci. 1 & 2/ Grades 10, 11, 12

**CREDIT:** 1

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

#### PHYSICAL EDUCATION

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

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

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 23144220/ ***Fitness Conditioning Activities—Aerobics (Fit/CondAero)***

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

**CREDIT:** 1

Develop skills in physical fitness, while doing aerobics.

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

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

**CREDIT:** 1

Develop endurance and strength using various weight-training methods.

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



PREREQUISITE/GRADES: Weight Train 1/ Grades 10, 11, 12  
CREDIT: 1  
Want to build muscle? Develop endurance and strength using various weight-training methods.

**COURSE NUMBER/TITLE:** 23213220/ *Gymnastics 1 (Gymnastics1)*  
**PREREQUISITE/GRADES:** Phys. Ed. 1/ Grades 10, 11, 12  
**CREDIT:** 1 *Can be taken four times for credit*  
Develop skills in gymnastics.

**COURSE NUMBER/TITLE:** 23214220/ *Gymnastics 2 (Gymnastics2)*  
**PREREQUISITE/GRADES:** Gymnastics 1/ Grades 10, 11, 12  
**CREDIT:** 1 *Can be taken four times for credit*  
Continue to develop skills in gymnastics.

**COURSE NUMBER/TITLE:** 23514210/ *Physiology of Exercise 1 (PhysioExer1)*  
**PREREQUISITE/GRADE:** None/ Grades 9, 10, 11, 12  
**CREDIT:** 1  
Examine anatomy and physiology as they pertain to exercise and sport. Get an introduction to athletic training, sports health careers, and recognition/treatment of common musculoskeletal injuries.



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

Sample Career Specialties / Occupations	<p>Aerospace Engineer* Aeronautical Engineer* Agricultural Engineer* Agricultural Technician* Application Engineer* Architectural Engineer* Automotive Engineer* Biomedical Engineer* Biotechnology Engineer* Chemical Engineer* Civil Engineer* Communications Engineer* Computer Engineer* Computer Hardware Engineer* Computer Programmer* Computer Science Technician* Computer Software Engineer* Construction Engineer* Consultant* Development Engineer* Drafter* Electrical Engineer* Electrician* Electronics Technician* Energy Transmission Engineer* Environmental Engineer* Facilities Technician* Fire Protection Engineer* Geothermal Engineer* Hazardous Waste Engineer* Hazardous Waste Technician* Human Factors Engineer* Industrial Engineer* Industrial Engineering Technician* Licensing Engineer* Manufacturing Engineer* Manufacturing Technician* Manufacturing Processes Engineer* Marine Engineer* Materials Engineer* Materials Lab &amp; Supply Technician* Mechanical Engineer* Metallurgic Engineer* Mining Engineer* Naval Engineer* Network Technician* Nuclear Engineer* Ocean Engineer* Operations Research Engineer* Packaging Engineer* Packaging Technician* Petroleum Engineer* Pharmaceutical Engineer* Plastics Engineer* Power Systems Engineer* Product Design Engineer* Project Engineer* Project manager* Prototype Engineer* Quality Engineer* Quality Technician* Radio/TV Broadcast Technician* Radiology Engineer* Researcher* Safety Engineer* Software Engineer* Sound Technician* Structural Engineer* Survey Technician* Systems Design Engineer* Technical Sales Manager* Technical Writer* Telecommunications Engineer* Textile Engineer* Transportation Engineer*</p>	<p>Analytical Chemist* Anthropologist* Applied mathematician* Archeologist* Astronomer* Astrophysicist* Atmospheric scientist* Biologist* Botanist* CAD operator* Cartographer* Chemist* Communications technologist* Conservation scientist* Cosmologist* Cryptographer* Crystallographer* Demographer* Dye chemist* Ecologist* Economist* Electronmicroscopist* Environmental scientist* Expert systems scientist* Geneticist* Geologist* Geophysicist* Geoscientist* Herpetologist* Hydrologist* Ichthyologist* Inorganic chemist* Laboratory Technician* Mammalogist* Marine scientist* Materials analyst* Materials scientist* Mathematician* Mathematics* Metallurgist* Meteorologist* Microbial Physiologist* Mycologist* Nanobiologist* Nuclear chemists* Nuclear technician* Numerical analyst* Nutritionist* Oceanographer* Organic chemist* Ornithologist* Paleontologist* Physicist* Polymer scientist* Programmer* Protein scientist* Protozoologist* Quality-control scientist* Radio chemist* Research chemist* Research Technician* Science Teacher* Lab Technician* Scientific visualization / graphics expert* Spectroscopist* Statistician* Technical writer* Technologist* Toxicologist* Zoologist*</p>
Pathways	Engineering and Technology	Science and Math
Cluster K&S	<p style="text-align: center;"><b>Cluster knowledge and skills</b></p> <ul style="list-style-type: none"> <li>◆ Academic Foundations ◆ Communications ◆ Problem Solving and Critical Thinking ◆ Information Technology Applications ◆ Systems</li> <li>◆ Safety, Health and Environment ◆ Leadership and Teamwork ◆ Ethics and Legal Responsibilities</li> <li>◆ Employability and Career Development ◆ Technical Skills</li> </ul>	



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## PATHWAY ELECTIVES

### MATHEMATICS

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

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

**CREDIT:** 1

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

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

**PREREQUISITE/GRADES:** Honors Trigonometry/ Grade 11, 12

**CREDIT:** 1

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

### LIFE AND PHYSICAL SCIENCES

**COURSE NUMBER/TITLE:** 17124114/17122113/ *Biology—Advanced Studies (BiolAdvStud)*

**PREREQUISITE/GRADE:** Integr. Sci. 1 & 2/ Grades 9, 10, 11, 12

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 17234114/ *Chemistry—Advanced Studies (ChemAdvStud)*

**PREREQUISITE/GRADE:** Algebra I, Integr. Sci. 1 & 2/ Grades 10, 11, 12

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 17334114/ *Physics—Advanced Studies (PhysicsAdvSt)*  
**PREREQUISITE/GRADE:** Integr. Sci. 1 & 2, Algebra 2/ Grades 10, 11, 12  
**CREDIT** 1  
Explore and extend physics concepts and topics studied in Integrated Science 1 and 2.

**COURSE NUMBER/TITLE:** 17125914/ *Honors Biology— Advanced Studies (HonBiolAdvSt)*  
**PREREQUISITE/GRADE:** Integrated Science 2, Teacher, Counselor Recommendation, Grades 11, 12  
**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 17235914/ *Honors Chemistry—Advanced Studies (HonChemAdvSt)*  
**PREREQUISITE/GRADE:** Integr. Sci. 1 & 2, Teacher, Counselor Recommendation/ Grades 10, 11, 12  
**CREDIT:** 1

Explore and extend chemistry concepts at a college level. Develop, conduct, and share individual experiments to investigate concepts and topics in depth. Technology is integrated throughout the course.

**COURSE NUMBER/TITLE:** 17335914/ *Honors Physics—Advanced Studies (HonPhysAdvSt)*  
**PREREQUISITE/GRADE:** Algeb. 2, Teacher, Counselor Recommendation/ Grades 11, 12  
**CREDIT** 1

Explore and extend physics concepts at a college level. Develop, conduct, and share individual experiments to investigate concepts and topics in depth. Technology is integrated throughout the course.

## TECHNOLOGY EDUCATION

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

**PREREQUISITE/GRADES:** NMSU selected

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

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



The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

<p><b>Sample Career Specialties / Occupations</b></p>	<p>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 &amp; Drug Inspectors • Bioengineers • Biochemists • Food &amp; Fiber Engineers • Food Processors • Storage Supervisors • Fieldman • Quality Control Specialists</p>	<p>Bioinformatics Specialists • Plant Breeders and Geneticists • Biotechnology Lab Technician • Soil &amp; Water Specialists • Crop Farm Managers • Agricultural Educators • Plant Pathologists • Aquaculturalists • Sales Representatives • Botanists • Tree Surgeons • Education &amp; Extension Specialists • Agricultural Journalists • Commodity Marketing Specialists • Grain Operations Superintendents • Custom Hay/Silage Operators • Forest Geneticists • Golf Course Superintendents • Greenhouse Managers • Growers • Farmers • Ranchers</p>	<p>Agricultural Educators • Livestock producers • All Technicians-Aquaculturalists • Animal Caretakers-Poultry Managers • Equine Managers-Veterinarians • Veterinary Assistants-Feedlot Specialists • Animal Scientists • Embryo Technologists • Livestock Buyers • Feed Sales Representatives • Vivarian Technicians • Wildlife Biologists • Livestock Geneticists • Animal Nutritionists • Dairy Producers • Livestock Inspectors • Feed Sales Specialists • Animal Health Salespersons • Meat Science Researcher • Reproductive Physiologists • Embryo Transfer Technicians • Pet Shop Operators • USDA Inspectors</p>	<p>Machine Operators • Electronics Systems Technicians • Agricultural Engineers • Agricultural Extension Engineering Specialists • Heavy Equipment Maintenance Technicians • Recycling Technicians • Waste Water Treatment Plant Operators • Equipment/Parts Managers • Welders • Machinists • Communication Technicians • Agricultural Applications Software Developers/Programmers • Database Administrators • Computer Service Technical Support Technicians • Information Lab Specialists • GPS Technicians • Remote Sensing Specialists</p>	<p>Cartographers • Wildlife Managers • Range Technicians • Ecologists • Park Managers • 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</p>	<p>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 Disposal / Recyclers • Solid Waste Technician • Solid Waste Managers • Solid Waste Specialists</p>	<p>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</p>
<p><b>Pathways</b></p>	<p>Food Products and Processing Systems (Food Processing and preserving, Packaging, Distribution, Government monitoring &amp; regulation)</p>	<p><b>Plant Systems</b> (Agronomic, Horticulture, Forestry, Turf, Viticulture, Soils, etc.)</p>	<p><b>Animal Systems</b> Large animals, small animals, wildlife animals, and research animals)</p>	<p>Power, Structural &amp; Technical Systems (Power, Structures, Controls, Geospatial Technology, Computer Systems, Electronics, Hydraulics, Pneumatics, etc.)</p>	<p>Natural Resources Systems (Habitat Conservation, Forest Products, Parks and Recreation, Mining, Environmental Services, Fisheries, Soil Conservation, etc.)</p>	<p><b>Environmental Service Systems</b> (Pollution Prevention, Water &amp; Air Quality, Hazardous Materials, Solid Waste Management, Health &amp; Safety Sanitation, etc.)</p>	<p>Agribusiness Systems Sales, Service, Farm and Ranch Management, Entrepreneurship, Economics, etc.)</p>
<p><b>Cluster K&amp;S</b></p>	<p><b>Cluster knowledge and skills</b> ♦ Academic Foundations ♦ Communications ♦ Problem Solving and Critical Thinking ♦ Information Technology ♦ Systems ♦ Safety, Health and Environment ♦ Leadership and Teamwork ♦ Ethics and Legal Responsibilities ♦ Employability and Career Development ♦ Technical Skills</p>						



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

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



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**Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.**

<b>Sample Career Specialties / Occupations</b>	President Vice President Governor Lieutenant Governor Mayor Cabinet Level Secretary (Fed./ State) Representative (Fed/State) Senator (Fed/State) Assistants, Deputies, and Chiefs of Staff Commissioner (County, Parish, City) Commissioner (State Agency) Congressional Aide Legislative Aide Legislative Assistant Specialist Lobbyist Policy Advisor	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 Cryptographer	Ambassador Foreign Service Officer: Consular Officer Administrative Officer Political Officer Economic Officer  Diplomatic Courier	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 Global Imaging Systems Specialist	Assessor Tax Auditor Internal Revenue Investigator Revenue Agent/Officer Tax Examiner/ Assistant/Clerk Inspector General Tax Attorney Tax Policy Analyst	Business Regulation Investigator Chief of Field Operations Code Inspector/Officer Director Equal-Opportunity Officer Inspector Investigator/Examiner Chief Bank Examiner Bank Examiner Aviation Safety Officer Border Inspector Cargo Inspector Election Supervisor Enforcement Specialist Immigration Officer	City Manager City Council City or County Clerk Court Administrator or Clerk  Executive Director/ Officer/Associate: Foundation Association Charitable Organization Industrial Foundation Chamber of Commerce  General Service Officer Management Analysis Officer Program Administration Officer
	<b>Pathways</b>	<b>Governance</b>	<b>National Security</b>	<b>Foreign Service</b>	<b>Planning</b>	<b>Revenue and Taxation</b>	<b>Regulation</b>
<b>Cluster K&amp;S</b>	<p align="center"><b>Cluster knowledge and skills</b></p> <p align="center">◆ Academic Foundations ◆ Communications ◆ Problem Solving and Critical Thinking ◆ Information Technology ◆ Systems ◆ Safety ◆ Health and Environment ◆ Leadership and Teamwork ◆ Ethics and Legal Responsibilities ◆ Employability and Career Development ◆ Technical Skills ◆ Fiscal Responsibilities</p>						



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

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



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



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

Sample of Career Specialties / Occupations	<p><b>Network Design and Administration:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Communications Analyst * Data Communications Analyst * Information Systems Administrator * Information Systems Operator * Information Technology Engineer</li> <li><input type="checkbox"/> <b>Network:</b> Administrator * Analyst * Architect * Engineer * Manager * Operations Analyst * Security Analyst * Specialist * Technician * Transport Administrator</li> <li><input type="checkbox"/> PC Support Specialist *</li> <li><input type="checkbox"/> <b>Systems:</b> Administrator * Engineer * Support Lead</li> <li><input type="checkbox"/> Technical Support Specialist * User Support Specialist</li> <li><input type="checkbox"/> Telecommunications Network Technician</li> </ul>	<p><b>Database Development and Administration:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Data:</b> Administrator * Analyst * Architect * Management Associate * Modeler * Modeling Specialist</li> <li><input type="checkbox"/> <b>Database:</b> Administration Associate * Administrator * Analyst * Developer * Manager * Modeler * Security Expert * DSS (Decision Support Services) * Knowledge Architect</li> <li><input type="checkbox"/> <b>Senior:</b> Database Administrator * Systems Analyst</li> <li><input type="checkbox"/> <b>Systems:</b> Administrator * Analyst</li> <li><input type="checkbox"/> Tester</li> </ul> <p><b>Technical Writer:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Desktop Publisher * Document Specialist * Documentation Specialist * Editor</li> <li><input type="checkbox"/> <b>Electronic Publications Specialist</b> * Publisher</li> <li><input type="checkbox"/> Instructional Designer, Online Publisher</li> <li><input type="checkbox"/> <b>Technical Communicator</b> * Editor * Publications Manager * Writer</li> </ul> <p><b>Technical Support:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyst * Call Center Support Representative * Content Manager</li> <li><input type="checkbox"/> <b>Customer:</b> Liaison * Service Representative * Service Professional</li> <li><input type="checkbox"/> <b>Help Desk:</b> Specialist * Technician</li> <li><input type="checkbox"/> Maintenance Technician * PC Support Specialist * PC Systems Coordinator * Product Support Engineer * Sales Support Technician * Systems Analyst</li> <li><input type="checkbox"/> <b>Technical:</b> Account Manager * Support Engineer * Support Representative</li> <li><input type="checkbox"/> Testing Engineer</li> </ul> <p><b>Enterprise Systems Analysis and Integration:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Application Integrator * Business Continuity Analyst * Cross-Enterprise Integrator</li> <li><input type="checkbox"/> <b>Data:</b> Systems Designer * Systems Manager * Warehouse Designer</li> <li><input type="checkbox"/> E-Business Specialist * Electronic Transactions Implementer</li> <li><input type="checkbox"/> <b>Information Systems:</b> Architect * Planner</li> <li><input type="checkbox"/> <b>Systems:</b> Analyst * Architect * Integrator</li> </ul>	<p><b>Digital Media:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 2D/3D Artist * Animator * Audio/Video Engineer * Designer * Media Specialist * Media/Instructional Designer</li> <li><input type="checkbox"/> <b>Multimedia:</b> Author * Authoring Specialist * Developer * Specialist</li> <li><input type="checkbox"/> Producer * Production Assistant * Programmer * Streaming Media Specialist * Virtual Reality Specialist</li> <li><input type="checkbox"/> <b>Web:</b> Designer * Producer * Specialist</li> <li><input type="checkbox"/> <b>Web Development and Administration:</b></li> <li><input type="checkbox"/> <b>Web:</b> Administrator * Architect * Designer * Page Developer * Producer * Site Developer * Specialist</li> <li><input type="checkbox"/> Webmaster</li> </ul>	<p><b>Programming / Software Engineering:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Applications:</b> Analyst * Engineer</li> <li><input type="checkbox"/> Business Analyst * Computer Engineer * Data Modeler</li> <li><input type="checkbox"/> <b>Operating System:</b> Designer/Engineer * Programmer Analyst</li> <li><input type="checkbox"/> Program Manager * Programmer * Programmer/Analyst * Project Lead</li> <li><input type="checkbox"/> <b>Software Applications:</b> Specialist * Architect * Design Engineer * Development Engineer * Engineer * QA Specialist * Tester</li> <li><input type="checkbox"/> <b>Systems:</b> Analyst * Administrator</li> <li><input type="checkbox"/> Test Engineer * Tester</li> </ul>
	Pathways	Network Systems	Information Support and Services	Interactive Media
Cluster K&S	<p><b>Cluster knowledge and skills</b></p> <ul style="list-style-type: none"> <li>◆ Academic Foundations ◆ Communications ◆ Problem Solving and Critical Thinking ◆ Information Technology Applications ◆ Systems</li> <li>◆ Safety, Health and Environmental ◆ Leadership and Teamwork ◆ Ethics and Legal Responsibilities</li> <li>◆ Employability and Career Development ◆ Technical Skills</li> </ul>			



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



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

<b>Sample Career Specialties / Occupations</b>	Warden• Jail Administrator• Mid-level Manager• Program Coordinator and Counselor• Public Information Officer• Correctional Trainer• Case Manager• Community Corrections Practitioner• Probation/ parole officer• Corrections Educator• Corrections Officer• Detention Deputy• Youth Services Worker• Facility Maintenance Workers• Transport Officer• Food Service Staff• Medical Staff• Dietitian• Support Staff	Emergency Management and Response Coordinator •Emergency Planning Manager•EMT•Fire Fighter•Mgr/Supv. Of Fire Fighters•Forest Fire Fighter• Mgr/Supv. of Forest Fire Fighters•Forest Fire Inspector & Investigator•Hazardous Materials Responder•Dispatcher•Training Officer, Grant Writer and Coordinator•Rescue Workers	Security Director•Corporate/Agency Security Director/VP•Corporate Director of Sales•Security Systems Designer/Consultant•Physical Security Specialist•Computer Forensics specialist•Private/Corporate Investigator•Loss Prevention/Security Manager (e.g. Store, hotel)•Security Trainer/Educator•Security Sales Representative/Manager• Loss Prevention Specialist•Physical Security Assistant•Security Systems Technician (Install/maintain)•Investigative Assistant (private sector) Security Trainer (Basics)•Security Sales Assistant• Transportation Security Supervisor•Information Security Assistant (Document Control)•Personnel Security Assistant•Executive Protection Officer (Private)• Supervisory Security officer (armed, unarmed)•Certified Security Officer (SPO, POST, Arrest Authority)•Armored Car Guard•Control Center Operator (e.g. ADT) (Monitoring Center)• Uniformed Security Officer (Unarmed -- proprietary and contract)•Security Clerk• Transportation Security Technician•Loss Prevention Assistant•Uniformed Security officer (armed)•Computer Security Specialist•Computer Forensics Examiner•Executive Protection Specialist•Gaming Surveillance Specialist•Information Security specialist•Information Technology Security•Armored Car Guards•Industrial Espionage Security•Life Guard, Ski Patrol, •Physical Property Security•Private Security Specialist	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	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
	<b>Correction Services</b>	<b>Emergency and Fire Management Services</b>	<b>Security &amp; Protective Services</b>	<b>Law Enforcement Services</b>	<b>Legal Services</b>
<b>Cluster K&amp;S</b>	<b>Cluster knowledge and skills</b> ♦ Academic Foundations ♦ Communications ♦ Problem Solving and Critical Thinking ♦ Information Technology Applications ♦ Systems ♦ Safety, Health and Environmental ♦ Leadership and Teamwork ♦ Ethics and Legal Responsibilities ♦ Employability and Career Development ♦ Technical Skills				



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



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

<b>Sample Career Specialties / Occupations</b>	<p>Entrepreneurs • Owners • Small Business Owners • Presidents • Chief Executive Officers • Principals • Partners • Proprietors • Franchisees • Independent X's (e.g., distributor) • Customer Service • Representatives • Administrative Support • Representatives (e.g., human resources, clerical, finance, technical)</p>	<p>Inbound Call Managers • Channel Sales Managers • Regional Sales Managers • Client Relationship Managers • Business Development Managers • Territory Representatives / Managers • Key Account Managers • National Account Managers • Account Executives • Sales Engineers • Sales Executives • Technical Sales Specialists • Retail Sales Specialists (big ticket) • Outside Sales Representatives • Industrial Sales Representatives • Manufacturer's Representatives • Salespersons • Field Marketing Representatives • Brokers • Agents • Field Representatives • Solutions Advisors • Sales/ Marketing Associates • Telemarketers • Customer Service Representatives • Administrative Support • Representatives (e.g., human resources, clerical, finance, technical)</p>	<p>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.) • Administrative Support • Representatives (e.g., human resources, clerical, finance, technical)</p>	<p>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 • Copywriters Research Specialists • Research Assistants • Customer Service Representatives • Administrative Support Representatives (e.g., human resources, clerical, finance, technical)</p>	<p>Database Managers • Research Specialists / Managers • Brand Managers • Marketing Services Managers • Customer Satisfaction Managers • (Research) Project Managers • CRM Managers • Forecasting Managers • Strategic Planners, Marketing Product Planners • Planning Analysts • Directors of Market Development • Database Analysts • Research Associates • Frequency Marketing Specialists • Knowledge Management Specialists • Interviewers • Customer Service Representatives • Administrative Support Representatives (e.g., human resources, clerical, finance, technical)</p>	<p>Warehouse Managers • Materials Managers • Traffic Managers • Logistics Managers • Transportation Managers • Inventory Managers/Analysts • Logistics Analysts/Engineers • Distribution Coordinators • Shipping/ Receiving Administrators • Shipping / Receiving Clerks • Customer Service Representatives • Administrative Support Representatives (e.g., human resources, clerical, finance, technical)</p>	<p>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 • Administrative Support Representatives (e.g., human resources, clerical, finance, technical)</p>
	<b>Path-way</b>	<b>Management and Entrepreneurship</b>	<b>Professional Sales and Marketing</b>	<b>Buying and Merchandising</b>	<b>Marketing Communications and Promotion</b>	<b>Marketing Information Management and Research</b>	<b>Distribution and Logistics</b>
<b>Cluster K&amp;S</b>	<p align="center"><b>Cluster Knowledge and Skills</b></p> <p align="center">♦ Academic Foundations ♦ Communications ♦ Problem Solving and Critical Thinking ♦ Information Technology Applications ♦ Systems            ♦ Safety, Health and Environmental ♦ Leadership and Teamwork ♦ Ethics and Legal Responsibilities            ♦ Employability and Career Development ♦ Technical Skills</p>						



***OTHER ELECTIVES (NON-PATHWAY)***  
**ELECTIVE ACTIVITIES**

**COURSE NUMBER/TITLE:** 08214000/ ***Student Aide (StudentAide)***  
**PREREQUISITE/GRADE:** None/ Grades 12  
**CREDIT** 1

Have the opportunity to work in one of several campus offices (front, attendance, guidance, athletic offices, in the library or audio-visual center, or with individual teachers), assisting the appropriate professionals with their duties. [Note: If you know the particular area (office or subject), use the codes below or within the particular subject area.]

**COURSE NUMBER/TITLE:** 08174100/ ***Drivers Education-Classroom Only (DriversEd)***  
**PREREQUISITE/GRADE:** Social Security Card/ Grades 9, 10, 11, 12  
**CREDIT** 1

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

**COURSE NUMBER/TITLE:** 00000600/ ***Advisory 9 (Advisory9)***  
**PREREQUISITE/GRADE:** None/ Grade 9  
**CREDIT** 0

No Description

**COURSE NUMBER/TITLE:** 00000300/ ***Advisory 10 (Advisory10)***  
**PREREQUISITE/GRADE:** None/ Grade 10  
**CREDIT** 0

No Description

**COURSE NUMBER/TITLE:** 00000400/ ***Advisory 11 (Advisory11)***  
**PREREQUISITE/GRADE:** None/ Grade 11  
**CREDIT** 0

No Description

**COURSE NUMBER/TITLE:** 00000500/ ***Advisory 12 (Advisory12)***  
**PREREQUISITE/GRADE:** None/ Grade 12  
**CREDIT** 0

No Description

**COURSE NUMBER/TITLE:** 08429100/ ***School Orientation (SchOrDABCC)***  
**PREREQUISITE/GRADE:** DABCC/ Grades 11, 12  
**CREDIT** 1

Research and plan for entrance into a university of your choice, and experience university life. In addition, participate in a variety of projects: independent research, community outreach, and serving as peer coaches to Level I students. (DABCC course title: *College Success*)

**COURSE NUMBER/TITLE:** 10314931/ ***Assisted Reading (AssistRead)***  
**PREREQUISITE/GRADE:** None/ Grades 9-12  
**CREDIT** 1

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

## STUDENT RESOURCE COURSES (open via a student's IEP)

**COURSE NUMBER/TITLE:** 10092851/ *Language Arts Laboratory 1(Reading 1) (LangArtLab1)*

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 10092051/ *Language Arts Laboratory 2 (Reading 2) (LangArtLab2)*

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 10092951/ *Language Arts Laboratory 3 (Reading 3) (LangArtLab3)*

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 20112831/ *Resource Center Math (General Math) (ResourMath)*

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 20212811/ *Pre-Algebra (PreAlgebra)*

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

Prepare for Algebra I. Study properties of rational number (i.e. number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first-degree equations and inequalities.

**COURSE NUMBER/TITLE:** 23162110/ *Adaptive Physical Education (AdaptivePE)*

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

Participate in physical activities adapted to meet your specific physical fitness needs. Meets high school graduation requirement

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

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

Become a wise consumer. Learn about goal setting, decision-making, prioritizing money, time management; relationships; and self-development. Participate in practical exercises regarding housing selection and furnishing, meeting transportation needs, food preparation, clothing and wardrobe building.

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

**PREREQUISITE/GRADES:** None

**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 16032150/ *Career Exploration 2 (Careers 2) (CareerExp2)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1

Evaluate your personal goals, priorities, aptitudes, and interests and match them with your career interests. Identify future career possibilities by researching careers and training options of interest, and understand the implications of technological and economic changes on the labor market. Also, develop job search and employability skills.

**COURSE NUMBER/TITLE:** 16052153/ *Diversified Occupations 1 (Jobs 1) (DivOccupa1)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1

**COURSE NUMBER/TITLE:** 16052155/ *Diversified Occupations 2 (Jobs 2) (DivOccupa2)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1

Enter the work force through career exploration, job search and application, and by developing positive work attitudes and work-related skills. Learn about career planning and selection, money management, communication skills, interpersonal business relationships and behavior, and personal responsibility. Employment may be a required component of this course, or students may be required to enroll concurrently in a work experience course.

**COURSE NUMBER/TITLE:** 16062133/ *Work Experience 1 (Work Study) (WorkExp1)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1

**COURSE NUMBER/TITLE:** 16062135/ *Work Experience 2 (Work Study) (WorkExp2)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1

The I.E.P. must state the student will get credit for on-the-job training for the above course. Course provides students with educational services and resources as needed. Specific materials or teaching techniques are offered through group instruction or individual tutorial assistance to reinforce any content area.

**COURSE NUMBER/TITLE:** 28032015/ *Community Living (COMMLIVING)*  
**PREREQUISITE/GRADES:** Self-Contained  
**CREDIT:** 1

Course places a special emphasis on the student's relationship to the surrounding community. Instruction varies with the students and their needs and IEPs; however, these courses provide the skills necessary for independent functioning within the surrounding environment. Topics may include guidance on available community resources, how to access them, emergency skills, and independent living strategies.

**COURSE NUMBER/TITLE:** 28042015/ *Mobility Instruction (MOBILITY)*  
**PREREQUISITE/GRADES:** Self-Contained  
**CREDIT:** 1

Course places a special emphasis on the student's relationship to the surrounding community. Instruction varies with the students and their needs and IEPs; however, these courses provide the skills necessary for independent functioning within the surrounding environment. Topics may include guidance on available community resources, how to access them, emergency skills, and independent living strategies.

**COURSE NUMBER/TITLE:** 28052015/ *Communication Instruction (COMMINSTRUCT)*  
**PREREQUISITE/GRADES:** Self-Contained  
**CREDIT:** 1

Course is individualized to meet each student's condition and needs. Increasing the student's communication skills—oral expression, listening comprehension, reading, and writing—is emphasized, as well as communication techniques in several areas (educational, social, and vocational).

**COURSE NUMBER/TITLE:** 28062015/ *Social Development Instruction (SOCDEVELOP)*  
**PREREQUISITE/GRADES:** Self-Contained  
**CREDIT:** 1

Teaches students the social skills needed for independent functioning within the community. Topics may include self-control, self-expression, obeying rules, decision-making, appropriate situational behavior, appropriate interaction with others, and maintaining relationships. Students may develop independence, self-confidence, and self-reliance.

**COURSE NUMBER/TITLE:** 28082015/ *Work Study (WORKSTUDY)*  
**PREREQUISITE/GRADES:** Self-Contained  
**CREDIT:** 1

Course includes all work experience options described in IEPs. Work sites may be on or off campus, and the work may result in stipends or wages.

**COURSE NUMBER/TITLE:** 08626000/ *Seminar (Gifted Elective) (Seminar)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1

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

**COURSE NUMBER/TITLE:** 08322000/ *Tutorial (Tutorial)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1

Receive the assistance needed to successfully complete coursework. Tutors may be teachers or other students. Receive help in one or several subjects, according to individual needs.

**COURSE NUMBER/TITLE:** 28022015/ *Special Resource (SpecResour)*  
**PREREQUISITE/GRADES:** None  
**CREDIT:** 1

Course provides students with educational services and resources as needed. Reinforcement of any content area may be offered with the use of specific materials or teaching techniques through group instruction or individual tutorial assistance.



## Center for Career and Technology Education Courses

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

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

<b>CCTE Course Title</b>	<b>ADS Course Number</b>	<b>ADS Course Title</b>	<b>Maximum # of Credits</b>
<b>Medical Office Administration</b>	15147252	Medical Office ( <i>MedOffice</i> )	4
<b>Health Science Technology</b>	15037252	Allied Health Occupations 1 ( <i>AlliedHealt1</i> )	4
	15037232	Allied Health Occupations 2 ( <i>AlliedHealt2</i> )	4
<b>Legal Office Management</b>	25042150	Public Administration ( <i>PublicAdmin</i> )	4
<b>Law Enforcement</b>	25132150	Criminal Justice Assisting ( <i>CriminalJust</i> )	4
<b>Auto Collision Repair</b>	09422152	Automotive Body Repair and Refinishing 1 ( <i>AutoBody1</i> )	4
	09422150	Automotive Body Repair and Refinishing 2 ( <i>AutoBody2</i> )	4
<b>Automotive Technology</b>	09127250	Automotive Technology—Comprehensive 1 ( <i>AutoTechCom1</i> )	4
	09127230	Automotive Technology—Comprehensive 2 ( <i>AutoTechCom2</i> )	4
<b>Diesel Technology</b>	09157250	Diesel Mechanics--General 1 ( <i>DieselMech1</i> )	4
	09157230	Diesel Mechanics--General 2 ( <i>DieselMech2</i> )	4
<b>Fashion Design</b>	05112151	Fashion Design 1 ( <i>Fashion1</i> )	4
	05112150	Fashion Design 2 ( <i>Fashion2</i> )	4
<b>Advertising Design</b>	13232151	Commercial Art 1 ( <i>CommArt1</i> )	4
	13232150	Commercial Art 2 ( <i>CommArt2</i> )	4
<b>Cosmetology</b>	06032150	Cosmetology 1 ( <i>Cosmetology1</i> )	4

	06032130	Cosmetology 2 ( <i>Cosmetology2</i> )	4
<b>Nail Technician</b>	06062150	Cosmetology--Nail Technician 1 ( <i>NailTech1</i> )	4
	06062130	Cosmetology--Nail Technician 2 ( <i>NailTech2</i> )	4
<b>Culinary Arts</b>	05087252	Culinary Arts 1 ( <i>CulinaryArt1</i> )	4
	05087232	Culinary Arts 1 ( <i>CulinaryArt2</i> )	4
<b>Hotel Restaurant Travel Management</b>	05287250	Hospitality, Tourism, and Recreation 1 ( <i>Hospitality1</i> )	4
	05287230	Hospitality, Tourism, and Recreation 2 ( <i>Hospitality2</i> )	4
<b>Microcomputer Technician</b>	03177250	Computer Technology ( <i>ComputerTech</i> )	4
<b>Web Page Design &amp; Animation</b>	03157230	Computer Graphics ( <i>ComGraphics</i> )	4
<b>Telenetworking</b>	03187250	Network Technology ( <i>NetworkTech</i> )	4
<b>Telecommunications I (I-Net)</b>	02767230	Web Page Design ( <i>WebPagDesign</i> )	4
<b>Electrical Technology</b>	04422152	Electricity--Comprehensive 1 ( <i>ElectricCom1</i> )	4
	04422132	Electricity--Comprehensive 2 ( <i>ElectricCom2</i> )	4
<b>Engineering and Architectural Drafting</b>	07072151	CAD Design and Software 1 ( <i>CADDDesign1</i> )	4
	07072150	CAD Design and Software 2 ( <i>CADDDesign2</i> )	4
<b>Electronics Technology</b>	04527252	Electronics--General 1 ( <i>Electronics1</i> )	4
	04527232	Electronics--General 2 ( <i>Electronics2</i> )	4
<b>Machining Technology</b>	24027252	Machining 1 ( <i>Machining1</i> )	4
	24027232	Machining 2 ( <i>Machining2</i> )	4
<b>Robotics &amp; Automation</b>	16242152	Manufacturing Systems 1 ( <i>ManufacSys1</i> )	4
	16242150	Manufacturing Systems 2 ( <i>ManufacSys2</i> )	4
<b>CTED Piping Trades/Plumbing</b>	04382151	Plumbing 1 ( <i>Plumbing1</i> )	4
	04382150	Plumbing 2 ( <i>Plumbing2</i> )	4

<b>CTED Carpentry Technology</b>	04162151	Particular Topics in Carpentry 1 <i>(PTCarpentry1)</i>	4
	04162150	Particular Topics in Carpentry 2 <i>(PTCarpentry2)</i>	4
<b>CTED Major Appliance Technology</b>	16332150	Appliance Repair <i>(ApplianceRep)</i>	4
<b>CTED Food Production</b>	05122152	Advanced Foods <i>(AdvFoods)</i>	4
<b>CTED Marketing Dynamics</b>	18022150	Principles of Marketing <i>(Marketing)</i>	4
<b>CTED Computer Exploration</b>	16952150	Technology Education—Related Subjects <i>(TechEdRelSub)</i>	4
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**Ronald Haugen**  
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## **DISTRITO ESCOLAR INDEPENDIENTE DE GADSDEN INFORMACIÓN DE PREMATICULACIÓN**

Estimados Padres:

Este manual trata sobre los requisitos y los cursos disponibles para su hijo/a. Los animamos a examinarlo, además de la Guía para los Grupos y Caminos de Carreras (“A Guide to Career Clusters and Pathways”), con su hijo/a para que juntos desarrollen un horario para el próximo año escolar.

Todo estudiante matriculado en nuestro distrito deberá examinar bien este manual antes de llenar la hoja de prematriculación. El manual contiene información sobre la matriculación y los requisitos de graduación, y la guía contiene descripciones de cada curso en las preparatorias. Los consejeros podrán proporcionarles información sobre requisitos para ingresar a la universidad, exámenes universitarios, ayuda financiera, becas y planes para una carrera.

Los estudiantes deben poner mucha atención al seleccionar sus cursos. Los cursos que escojan determinarán el horario general para el año entrante. Las selecciones determinarán cuales cursos se ofrecerán, así como la cantidad de secciones para cada curso. Una selección cuidadosa le ayudará al estudiante a obtener los cursos que solicite.

Animamos a Uds. los padres a usar el manual y la guía para hablar sobre los cursos y ayudarlo a su hijo/a a seleccionarlos. Su participación en esta tarea le será de mucho beneficio a su hijo/a al diseñar su programa académico para graduarse. Si desea más información, comuníquese con su escuela.

Sinceramente,

Ronald Haugen,  
Superintendente

**GADSDEN INDEPENDENT SCHOOL DISTRICT  
GUÍA DE PRE-REGISTRACIÓN PARA PREPARATORIA**

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## INFORMACIÓN SOBRE EXÁMENES

Esta información se ofrece como una guía para ayudar a los padres y estudiantes. Se recomienda que todos los estudiantes aprovechen la oportunidad que estas pruebas ofrecen.

- PSAT:** Una prueba antes del SAT disponible a estudiantes de grados 10 y 11; es la National Merit Scholarship Qualifying Test cuando se toma como estudiante de grado 11
- ACT:** Una prueba para admisión a todas las universidades, preferida por casi todas las universidades de Nuevo México
- SAT:** Una prueba para admisión a todas las universidades, preferida por muchas escuelas exclusivas y por universidades de Texas

Las fechas para los exámenes son disponibles en el Centro de Consejería y en las clases de inglés. Los resultados de ACT o SAT se requieren para admisión a las universidades.

**Inventario de interés:** Instrumentos de evaluación disponibles para ayudar a los estudiantes a determinar su interés en carreras

**ASVAB:** Una prueba de aptitudes para carreras militares disponible a todos grados; es voluntaria

**ACT/Compass:** Una prueba para entrar al Doña Ana Community College y para calificar para cursos articulados con el DACC

### **Calendario de Pruebas**

- PSAT:** octubre
- NMHSCE:** noviembre (grado 12 solamente), enero-febrero (grados 10, 11, y 12)
- NMSBA:** marzo (grados 9 & 11)
- PLAN:** (Empezando en 2009) Para información, vea al consejero
- SAT:** Para información, vea al consejero
- ACT:** Para información, vea al consejero
- ASVAB:** Para información, vea al consejero

## CLASIFICACIÓN DE ESTUDIANTES

### **NORMAS PARA EL TRASLADO DE CRÉDITOS PROVENIENTES DE PAÍSES EXTRANJEROS**

- 1) Estudiantes provenientes de México (o de otros países con un sistema de calificación similar) deben presentar su expediente académico a los consejeros para que sea evaluada de la siguiente forma:
  - a. Únicamente el grado 3 de **secundaria** (grado 9 de los E. U.) debe ser revisado, además de los grados 1, 2, & 3 de **preparatoria** (grados 10, 11, 12 de E. U.). Solamente los cursos en los que el estudiante ha recibido una calificación de A, B, C, o D (A = 95, B = 85, C = 75, D = 65, a no ser que hayan calificaciones en forma de porcentajes en el expediente académico) se pueden aceptar para crédito. Un estudiante sólo puede transferir un máximo de ocho (8) créditos **por año**, algunos de los cuales pueden ser electivos. Sólo se pueden transferir un total de 15 créditos.
  - b. La mitad de un crédito puede ser transferido si fue ganado bajo el sistema de semestre.
  - c. Conversión de calificaciones  
10 = A+  
9 = A (Calificaciones numéricas **no** serán redondeadas.)  
8 = B Un 7.9 será 7, igual a una C.)  
7 = C  
6 = D  
0-5 = F **(No recibe crédito)**
- 2) Un estudiante matriculándose con un expediente académico de un país con un sistema diferente será evaluado individualmente.
- 3) **Estudiantes de intercambio internacional sólo pueden ser clasificados como de grado 11 y no son elegibles para graduarse de Gadsden Independent School District.**
- 4) **Las personas que con éxito han completado el equivalente de preparatoria en su país de origen NO son elegibles para matricularse en escuelas preparatorias en Nuevo México.**

### **REQUISITOS DE CLASIFICACIÓN (determinados en junio de cada año)**

- Para ser clasificado como un estudiante de grado 10, se necesita un mínimo de 6 créditos.
- Para ser clasificado como un estudiante de grado 11, se necesita un mínimo de 12 créditos.
- Para ser clasificado como un estudiante de grado 12, se necesita un mínimo de 20 créditos.
- Estudiantes de grado 12 necesitan 28 créditos para graduarse. \*\* (Véase la página 6.)
- Estudiantes que transfieren con 19 créditos serán reclasificados como de grado 12 en enero.
- Estudiantes de grado 12 necesitan 28 créditos para poder graduarse. \*\* (Véase la página 6.)



## CRÉDITO PARA CLASES DE PREPARATORIA EN LA ESCUELA SECUNDARIA

Actualmente, el distrito de Gadsden ofrece cinco cursos que estudiantes pueden tomar en el nivel de la escuela secundaria que pueden servir para crédito para graduarse de la preparatoria. Estos cursos son:

- Inglés 1
- Algebra 1
- PREPS
- Aplicaciones generales de computadoras
- Español para hispanohablantes 1 & 2 equivalen a un (1) crédito en idioma extranjero

### Los pasos para calificarse en varios cursos

**Para ser elegible a matricularse en Inglés 1 y Algebra 1**, los estudiantes tienen que satisfacer los siguientes criterios:

- Paso 1: Estudiantes calificarán automáticamente si cumplen un nivel de Avanzado en la prueba New Mexico Standards-based Assessment (NMSBA) en artes del lenguaje y/o matemáticas.
- Paso 2: Se puede tomar en cuenta a los estudiantes que cumplen el nivel de Proficiente en artes del lenguaje y/o matemáticas en la prueba New Mexico Standards-based Assessment (NMSBA). Si el estudiante es referido al SAT, el comité considerará las calificaciones del estudiante y la recomendación del maestro y otros resultados de pruebas. Estos estudiantes calificarán con la recomendación del comité después de considerar esta información: Si el estudiante aún no califica, la prueba al final del libro de Pre-Algebra o la prueba del Departamento de Artes del Lenguaje puede ser agregado al perfil del estudiante y el SAT puede considerar de nuevo la aprobación del estudiante.

**Crédito para Inglés 1 y/o Algebra 1 será determinado así:**

3. Los estudiantes que obtengan 80-100% en Inglés 1 y/o Algebra 1 como estudiantes de grado 8, pueden matricularse en Inglés 2 Honor y/o Geometría Honor.
4. Los estudiantes obteniendo 60-79% en Inglés 1 y/o Algebra 1 como estudiantes de grado 8 se matricularán en Inglés 2 y/o Geometría, no en los cursos de honor.

**Para poder recibir crédito electivo para preparatoria para los cursos secundarios de Aplicaciones Generales de Computadores y Español para hispanohablantes 3**, los estudiantes tienen que haber pasado ambos semestres con 60% o más.

**EL ESTUDIANTE NO PUEDE VOLVER A TOMAR NINGUNO DE ESTOS CURSOS EN LA PREPARATORIA SI YA LOS HA PASADO AL NIVEL DE LA SECUNDARIA (según la ley 6.30.2 NMAC—"Un estudiante no puede tomar el mismo curso 2 veces para crédito.")**

**Se transmitirá notificación/crédito** para estos cursos por carta/expediente académico oficial desde la escuela secundaria a la Oficina del Sub-Superintendente para Instrucción y al director y al consejero principal de la escuela preparatoria.

## GRADUACIÓN Y DESPUÉS

### REQUISITOS DE GRADUACIÓN

<p><b>Para las clases de graduación de 2007-2008</b>, se requiere que el estudiante reciba veintiocho (28) créditos* en grados nueve hasta doce (9-12) para poder graduarse, distribuidos de la siguiente forma:</p> <p>I. Cuatro (4) créditos en inglés</p> <p>J. Tres (3) créditos en matemáticas</p> <p>K. Tres (3) créditos en ciencias, uno de los cuales ha de tener un componente laboratorio</p> <p>L. Tres (3) créditos en ciencias sociales:</p> <ol style="list-style-type: none"><li>a. Principios de la democracia—1 crédito</li><li>b. Historia de los Estados Unidos—1 crédito</li><li>c. Historia mundial/geografía—1 crédito</li></ol> <p>M. Un (1) crédito en Educación física/Salud</p> <p>N. Un (1) crédito en Destrezas de comunicación</p> <p>O. Dos (2) créditos en idioma extranjero</p> <p>P. Once (11) créditos electivos</p>	<p><b>Empezando con la clase de graduación 2009</b>, se requiere que el estudiante reciba veintiocho (28) créditos* en grados nueve hasta doce (9-12) para poder graduarse, distribuidos de la siguiente forma:</p> <p>I. Cuatro (4) créditos en inglés</p> <p>J. Tres (3) créditos en matemáticas</p> <p>K. Tres (3) créditos en ciencias, uno de los cuales ha de tener un componente laboratorio</p> <p>L. Cuatro (4) créditos en ciencias sociales:</p> <ol style="list-style-type: none"><li>a. Principios de la democracia—1 crédito</li><li>b. Historia de Nuevo México—1 crédito</li><li>c. Historia de los Estados Unidos—1 crédito</li><li>d. Historia mundial/geografía—1 crédito</li></ol> <p>M. Un (1) crédito en Educación física/Salud</p> <p>N. Un (1) crédito en Destrezas de comunicación/Educación de negocios/Idioma Extranjero, nivel 3</p> <p>O. Dos (2) créditos en idioma extranjero</p> <p>P. Diez (10) créditos electivos</p>
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\* Se requiere que los estudiantes que transfieren a Gadsden en grado 12 de una escuela con los tradicionales seis o siete períodos por día, completen con éxito por los menos 23 créditos (clases de 2006-2008) o 24 créditos (clase de 2009 en adelante), el mínimo del estado, incluyendo los cursos requeridos.

**NINGÚN ESTUDIANTE RECIBIRÁ SU DIPLOMA DE PREPARATORIA SI NO HA PASADO EL "NEW MEXICO HIGH SCHOOL COMPETENCY EXAM" (NMHSCE)\*\*** en las áreas de artes del lenguaje, lectura, composición, matemáticas, ciencia, y ciencias sociales. Si un estudiante sale del sistema escolar al fin del grado 12 sin pasar el "New Mexico High School Competency Exam" (NMHSCE), recibirá un certificado apropiado indicando el número de créditos ganados y el grado completado. Los estudiantes que no pasan todas las secciones del NMHSCE, ni completan todos los requisitos de graduación (28 créditos), no participarán en las ceremonias de graduación.

\*\*El recibo de un diploma o certificado de cumplimiento para estudiantes en el programa de educación especial será de

acuerdo con los “Educational Standards for New Mexico Public Schools,” efectivo julio, 1988.

### CURSOS PREPARATORIOS PARA LA ADMISIÓN UNIVERSITARIA

Tomando un examen para entrar al colegio, o teniendo un promedio de calificaciones alto, no garantizará admisión a una universidad. Los estudiantes también tienen que cumplir una serie de cursos preparatorios que las universidades creen necesarias para el éxito en la universidad. Para cumplir estos requisitos, se RECOMIENDA que el estudiante complete los siguientes cursos:

<b>Inglés</b>	Cuatro (4) Créditos	Inglés I, II, III, y IV.
<b>Ciencia</b>	Cuatro (4) Créditos	Materias como Ciencias Integradas, Biología, Química, Física, Ciencia Ambiental, y Anatomía Humana/Fisiología
<b>Matemáticas</b>	Cuatro (4) Créditos	Álgebra I, Álgebra II, Geometría; Trigonometría y Cálculo son altamente recomendados para estudiantes que entrarán en ingeniería
<b>Ciencias Sociales</b>	Tres (3) Créditos	Principios de Democracia, Historia de los E. U., Historia del Mundo
<b>Lenguaje Extranjero</b>	Tres (3) Créditos	Un mínimo de dos años del mismo lenguaje extranjero cumplirá este requisito
<b>Bellas Artes</b>	Un (1) Crédito	Cursos de estas áreas: arte, música, artes del teatro
<b>Tecnología de computadoras</b>	Un (1) Crédito	Curso de Computadoras y Tecnología de Información

Los requisitos para entrar a colegio varían. Visita a su consejero para información sobre el colegio que le interesa y/o obtenga un folleto informativo directamente del colegio. Estos materiales se consiguen en el Centro de Consejería para ayudar a estudiantes a investigar información y escoger a una universidad. **(Nota: Se le puede negar admisión a una universidad si el estudiante no ha tomado los cursos preparatorios que satisfagan las reglas de admisión. ES LA RESPONSABILIDAD DEL ESTUDIANTE Y SUS PADRES ASEGURAR QUE EL ESTUDIANTE HAYA COMPLETADO LOS CURSOS RECOMENDADOS.)**

### COURSE SELECTION

#### GUÍA

*Se puede ofrecer únicamente los cursos pedidos por un mínimo de 15 estudiantes. El “Central Management Team” (CMT) tiene que aprobar las excepciones.*

- 10) Los estudiantes se matricularán en ocho clases para el año. Las clases para los estudiantes en grado 12 serán modificadas para acomodarlos.
- 11) Los estudiantes que esperan completar sus requisitos para graduar en diciembre (al fin del primer semestre) deben de comunicarse con su consejero después del primer período de calificaciones.
- 12) Se cambian las clases solamente para las siguientes razones:
  - a) **El estudiante está mal colocado en una clase o no tiene las destrezas o pre-requisitos necesarios.**
  - b) **El estudiante ha tomado el curso antes y lo completó con éxito.**
  - c) **Un estudiante de grado 12 necesita un curso requerido para graduar.**
  - d) **El director tiene la autoridad final en aprobar cambios de cursos.**
- 13) Para matricularse en un curso, los estudiantes tienen que haber estado matriculado en y completado con éxito los pre-requisitos para este curso en los semestres anteriores.
- 14) Los estudiantes serán matriculados en cursos requeridos que son apropiados para su grado y su habilidad.
- 15) Los estudiantes que no se presentan el primer día del semestre perderán las clases escogidas durante pre-matriculación. Si pierde sus clases, el estudiante puede escoger clases aún disponibles.
- 16) La regla de ausencia empieza el **primer** día de cada semestre. Estudiantes que faltan a la escuela **10** días consecutivos desde el comienzo del año escolar se quitarán de la lista como estudiantes “sin aparecer.” Los estudiantes tienen que ser matriculados otra vez por sus padres después de ser quitados de la lista porque tienen 10 días consecutivos de ausencia. Se pierden las clases escogidas anteriormente. Estos estudiantes pueden escoger clases aún disponibles.
- 17) Los estudiantes que se matriculen en las escuelas preparatorias de Gadsden después de las primeras seis (6) semanas **no** recibirán crédito para el semestre sin apelación al director/representante. La única excepción es un estudiante que transfiere de otra escuela en que estuvo matriculado inmediatamente antes de la matriculación en las escuelas preparatorias de Gadsden.

### **COSTO DE CURSOS**

Estos son los costos para los siguientes cursos:

Cursos de negocios/tecnología	\$10.00
Cursos ciencia de la familia y el consumidor	\$10.00
Cursos de bellas artes y drama	\$10.00
Curso para aprender a manejar	\$ 5.00

Cursos de ciencia  
Cursos de carreras

\$10.00  
\$10.00

### LOS CURSOS QUE UNO PUEDE TOMAR POR CRÉDITO MÁS DE UNA VEZ

La tabla de abajo identifica los cursos que uno puede tomar más de una vez y explica lo máximo de matriculación permitida y la ganancia de crédito.

Título	Veces/Créditos
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

Título	Veces/Créditos
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

### CALIFICACIONES Y PUNTO DE PROMEDIO (GPA)

#### EL SISTEMA DE CALIFICACIONES PARA LA ESCUELA PREPARATORIA (A7/1/85; R8/27/96)

- 5) El maestro evaluará a todos los estudiantes y registrará sus calificaciones numéricamente. Las calificaciones no serán representadas con puntos, guiones, estrellas, u otros símbolos que no sean numéricos.
- 6) Las calificaciones serán determinadas en base a todos los puntos posibles para el período de calificaciones; no se permite encorvar las calificaciones.
- 7) Cada sesión tendrá dos términos y cada calificación del término será calculada numéricamente incluyendo todas las calificaciones.
- 8) Una calificación porcentaje será derivada de la calificación numérica y será asignada una letra equivalente basada en la escala siguiente:
 

90-100	A
80-89	B
70-79	C
60-69	D
59 o menos	F
- 9) El promedio de la sesión para todos los cursos de **4 X 4 "Block"** será determinado por los siguientes porcentajes:
  - 40% - 1<sup>er</sup> 9 semanas
  - 40% - 2<sup>do</sup> 9 semanas
  - 20% - el examen final
- 10) El promedio de la sesión para todos los cursos de **AB "Block"** será determinado por los siguientes porcentajes:
  - 40% - el promedio de las calificaciones de los 1er y 2do 9 semanas
  - 10% - el examen del semestre de otoño
  - 40% - el promedio de las calificaciones de los 3er y 4to semanas
  - 10% - el examen del semestre de primavera
- 11) El progreso será evaluado con frecuencia y reportado al estudiante. Es requerido que, por lo menos, el progreso de los estudiantes sea evaluado una vez por semana y registrado en el libro de calificaciones.
- 12) El peso de varias asignaciones durante el término será determinado por el maestro. Sin embargo, el peso de asignaciones tiene que ser lógico, justo, y descrito en las reglas de conducta de la clase para que los estudiantes conozcan el sistema que se usa.
- 13) Las calificaciones reflejarán los niveles de cumplimiento académico. Las calificaciones no reflejarán el comportamiento del estudiante.

14) Se usa la escala de abajo para calcular los puntos de calificación:

Clase de graduación de 2007-2008:	A = 4.0	Clase de graduación de 2009 en adelante:	90-100 equivalent to A
	B = 3.0		80-89 equivalent to B
	C = 2.0		70-79 equivalent to C
	D = 1.0		60-69 equivalent to D
	F = 0		50-59 equivalent to F

15) Se usa la escala de abajo para calcular los cursos de honor/los cursos avanzados:

Clase de graduación de 2007-2008:	A = 5.0	Clase de graduación de 2009 en adelante:	90-100 + 5 points
	B = 4.0		90-99 + 5 points
	C = 3.0		80-89 + 5 points
	D = 1.0		60-69 No extra points
	F = 0		50-59 No extra points

***El punto de promedio de calificaciones será determinado por el total de puntos de todas las calificaciones. Se figuran los puntos de calificaciones de acuerdo con los créditos del curso.***

### LOS REQUISITOS PARA EL ORDEN DE LA CLASE

Para calificarse para estar en el 10% más alto de la clase de graduación, un estudiante tiene que completar grado 12 (9 meses completos) en el distrito de Gadsden. Para ser elegible, los estudiantes que quieren graduar en menos de cuatro años, o los que traspasan de otro distrito, **también tienen que completar sus 9 meses del grado 12 en Gadsden.**

### CURSOS DE HONOR

Los cursos nombrados en seguida son aquellos que se han determinado como cursos de honor, y los participantes recibirán puntos en una escala de cinco (5) puntos (véase arriba). Se darán puntos de honor para cada calificación de A, B, o C solamente. La entrada en estos cursos será determinada con requisitos y recomendación del maestro/consejero.

Inglés I Honor	Algebra II Honor	Biología Avanzado Honor	Historia de los E. U. Honor
Inglés II Honor	Geometría Honor	Química Avanzada Honor	Historia Mundial Honor
Inglés III Honor	Trigonometría Honor	Física Avanzada Honor	Español III Honor
Inglés IV Honor	Cálculo Diferencial Honor	Anatomía/Fisiología I & II Honor	Francés III Honor
Algebra I Honor	Ciencia Integrada 1 & 2 Hon.	Fisiología de Deporte Honor	

***Los estudiantes no pueden tomar un curso regular más el equivalente curso de honor. SERÍA UNA VIOLACIÓN DEL LEY DEL ESTADO DE NUEVO MÉXICO.***

### CURSOS AVANZADOS

Los cursos nombrados abajo son cursos que han sido designados para hacer frente a los requisitos académicos más rígidos del programa avanzado (AP). El programa AP es una experiencia de educación cooperativa entre escuelas preparatorias, y colegios y universidades. Los estudiantes pueden tomar el examen de AP en cada curso de AP que han pasado con éxito, para demostrar ejecución al nivel de colegio. Si pasa el examen, el estudiante puede recibir crédito del colegio o la universidad para el curso. Se ofrecen los siguientes cursos:

AP Arte	AP Inglés
AP Cálculo AB	AP Idioma Hispano
AP Biología	AP Idioma Francés
AP Química	AP Historia de los E. U
AP Física	AP Historia del Mundo

### OTRAS FORMAS DE SEGUIR ESTUDIOS

#### PROGRAMA DE ESTUDIO INDEPENDIENTE

Este programa está diseñado para los estudiantes que quieren tomar un curso que no se justifica porque no hay suficientes estudiantes en la clase, o para aquellos estudiantes que quieren añadir un curso de interés aparte de su horario de clases.

- No se permite a los estudiantes tomar ningún curso principal requerido para graduación por medio de estudio independiente. Los cursos principales están nombrados en página 6 bajo los requisitos de graduación "A-G."
- Todos los cursos de estudio independiente tienen que ser aprobados por el director, el consejero, y el maestro de registro.
- El número de créditos será determinado por el número de horas que el estudiante esté empeñado en sus estudios.
- El estudiante tiene que completar todo su trabajo de su curso de estudio independiente asignado y el maestro de registro tiene que entregar calificaciones para estos estudiantes durante el tiempo que se entreguen las calificaciones para los demás cursos.

7. Cada estudiante tiene que firmar un contrato de estudio que ha sido aprobado y firmado por el maestro de registro, el consejero, y el director. El contrato tiene que incluir lo siguiente:
  - a. El contenido del curso tiene que incluir 180 horas para obtener un crédito.
  - b. Los métodos de evaluación y el método de determinar las calificaciones tienen que ser específicos.

### **ESTUDIO DE CORRESPONDENCIA O EXTENSIÓN**

Créditos ganados por medio de estudio de correspondencia o extensión pueden ser aceptados si estos créditos vienen de escuelas aprobadas o acreditadas por el "National Home Study Council," La Mesa Directiva de Educación del estado donde están localizados, o por un colegio o una universidad que está acreditado regionalmente por este propósito.

Todo estudio de correspondencia o extensión debe tener aprobación y verificación de acreditación del consejero de antemano, y debe tener la aprobación del director antes de la matriculación en dicho estudio.

### **DESERT PRIDE ACADEMY**

Desert Pride Academy ofrece un ambiente educativo que provee la flexibilidad y el apoyo necesarios para estudiantes non-tradicionales para poder completar su programa preparatorio. El enfoque académico es en las materias principales de artes del lenguaje, matemáticas, ciencias sociales, y ciencia, además de un número limitado de electivos que permite a los estudiantes tener un programa individual y a su propio tiempo. La población de la Academia está compuesta de estudiantes que han abandonado la escuela, los mayores de edad, y los referidos por una suspensión larga.

#### **Criterios para admisión**

7. El estudiante tiene que tener 16-21 años de edad.
8. El estudiante tiene que estar por lo menos un año atrasado en sus créditos académicos.
9. El estudiante tiene que ser recomendado por el superintendente o el director de preparatoria, y/o haya sido recomendado por una suspensión larga, y/o haya abandonado la escuela, y/o haya sido libertado de una institución correccional.
10. Los estudiantes que hacen frente a los criterios para admisión y son recomendados por un comité de I.E.P. también se admiten.
11. Los estudiantes tienen que completar un formulario, tener una entrevista, y ser aprobados por el director de Desert Pride Academy.
12. Se aceptan por admisión por semestre.

#### **Proceso de admisión**

4. El estudiante tiene que hacer frente a los criterios de admisión.
5. El estudiante será quitado de su escuela preparatoria permanente.
6. El estudiante se matriculará en Desert Pride Academy por un semestre.

#### **Requisitos para continuar**

6. El estudiante tiene que tener buena asistencia.
7. El estudiante tiene que mantener ochenta por ciento de maestría en cada clase académica.
8. El estudiante tiene que pasar ochenta por ciento de todas las clases académicas intentadas.
9. El estudiante tiene que demostrar buen comportamiento, enseñar respeto, y mantener una actitud positiva.
10. El estudiante tiene que ser aprobado por Desert Pride Academy (la administración, los maestros, personal escolar) para ser aceptado el siguiente semestre.

#### **Curso de estudios**

5. El estudiante tiene que asistir por un semestre, y/o enseñar maestría en noventa por ciento de sus destrezas académicas para recibir un crédito académico de cada clase.
6. El estudiante seguirá el curso de estudios a su nivel y a su tiempo.
7. El estudiante, con la excepción de estudiantes de 12mo grado que van a graduar, puede ganar un máximo de seis créditos por semestre.
8. El estudiante hará frente a los requisitos del estado para ganar un diploma de preparatoria.

### **PUENTES A CARRERAS**

#### **CENTROS DE CARRERA**

En Chaparral High School, Gadsden High School, y Santa Teresa High School están los Centros de Carrera diseñados a proveer los siguientes servicios a los estudiantes y a la comunidad:

- **Ayuda en construir una cartera de carreras, incluyendo un resumen**
- Dirección hacia carreras, proyecto de colegio, acceso a oportunidades de trabajo en el área y en la nación
- Permisos para trabajar a estudiantes menos de 16 años (tienen que tener un número de seguro social)
- Recursos, programas de computadora, y computadoras disponibles para escribir resúmenes, búsqueda de empleo, destrezas de entrevista, éticas del trabajo, y búsquedas en el Internet para información sobre carreras, colegios, y ayuda financiera
- Ayuda en determinar la disposición favorable a una carrera
- Información de trabajos corrientes y demandas de trabajos del futuro
- Referencias a servicios sociales de la comunidad

Los Centros de Carrera ofrecen los siguientes servicios a los maestros:

- Acceso a actividades para el aula relacionados con estándares de preparación para carreras
- Ayuda en facilitar el escrito de resúmenes, destrezas de entrevista, aplicaciones de trabajo, investigación de carreras, e investigación de ayuda financiera para colegio
- Proveer a los maestros información sobre empleo corriente y empleo del futuro.

### ARTICULACIÓN CON EL COMMUNITY COLLEGE

El distrito de Gadsden y el Doña Ana Community College (DACC) proveen una oportunidad para los estudiantes de años 11 y 12 que califiquen, para asistir a cursos en Doña Ana Community College, Gadsden Educational Center y Sunland Park Educational Center. Los estudiantes tomarán cursos en un programa vocacional/técnico, escogido por ellos mismos, que aplicarán hacia sus créditos de preparatoria y al mismo tiempo hacia su grado o certificación en DABCC o en NMSU.

Los cursos en DACC se ofrecen de lunes a viernes por la mañana. Camiones llevan a los estudiantes desde su escuela preparatoria hasta el colegio DACC más cercano a su escuela. Los libros y el costo de la enseñanza serán pagados por el distrito Gadsden, con tal de que el estudiante esté matriculado en una de las escuelas preparatorias del distrito.

Estudiantes también pueden ir a DACC y regresar a la escuela en sus propios carros, **con tal de que un Acuerdo de Transporte ha sido firmado con el Distrito.**

Cualquier estudiante interesado tiene que visitar a su consejero y tiene que hacer frente a los siguientes requisitos:

1. 2.0 GPA
2. Buena asistencia
3. Permiso del padre
4. Pasar el prueba ACT/COMPASS
5. Estar dispuesto a hacer frente a las demandas de asistir a la escuela preparatoria y el community college al mismo tiempo

**PLANEACIÓN PARA LA GRADUACIÓN Y LA CARRERA: UNA LISTA PARA ESTUDIANTES Y PADRES**

**AÑO 9**

- Estando en grado 9, pre-matricular para la preparatoria después de familiarizarse con los requisitos de graduación y las opciones de electivos.
- Crear un “Career Pathway” y el plan de cuatro años durante su año 9.
- Explorar escuelas después de preparatoria y opciones de ayuda monetaria.
- Construir su cartera de carrera, incluyendo su resumen.

**AÑO 10**

- Registrar para cursos por medio del “Pathway.”
- Revisar su progreso y su plan de cuatro años y su “Career Pathway.”
- Tomar/Pasar la prueba New Mexico High School Competency Exam.
- Explorar escuelas después de preparatoria y opciones de ayuda monetaria.
- Revisar su cartera de carrera, incluyendo su resumen.

**AÑO**

- Registrar para cursos por medio del “Pathway.”
- Revisar su progreso y su plan de cuatro años y su “Career Pathway.”
- Tomar el PSAT, si se está preparando para la universidad o el colegio (opcional).
- Explorar escuelas después de preparatoria y opciones de beca.
- Tomar exámenes para entrar al colegio, como el ACT y SAT.
- Considerar tomar el ASVAB para planear carreras.
- Asistir a días de colegio/carreras.
- Revisar su cartera de carrera, incluyendo su resumen.

**AÑO 12**

- Registrar para cursos por medio del “Pathway.”
- Revisar su progreso y su plan de cuatro años y su “Career Pathway.”
- Pasar todas las secciones del New Mexico High School Competency Exam.**
- Cumplir con todos los requisitos de cursos y créditos para graduación.**
- Explorar escuelas después de preparatoria y opciones de beca.
- Tomar exámenes para entrar al colegio, como el ACT y SAT.
- Considerar tomar el ASVAB para planear carreras.
- Asistir a días de colegio/carreras.
- Completar aplicaciones para entrar al colegio antes del término.
- Completar aplicaciones para becas antes del término.
- Asistir a cursillos sobre ayuda monetaria y completar la forma FAFSA en enero (los padres tienen que completar su forma de impuestos del gobierno).
- Terminar su cartera de carrera, incluyendo su resumen.

**EL PASO SIGUIENTE ("NEXT STEP")**

<b>Nombre del estudiante:</b>	_____	<b># del estudiante</b>	_____
<b>Dirección:</b>	_____	<b>Ciudad, Estado, Zona Postal</b>	_____
<b>Padre de familia/guardián</b>	_____	<b>Número de teléfono:</b>	<b>Fecha de graduación proyectada</b>

**METAS DEL ESTUDIANTE:**

6. ¿Cuáles son los intereses del estudiante en su carrera de largo plazo?

9<sup>no</sup>

\_\_\_\_\_

10<sup>mo</sup>

\_\_\_\_\_

11<sup>mo</sup>

\_\_\_\_\_

12<sup>mo</sup>

\_\_\_\_\_

7. ¿Cuáles son las metas académicas del estudiante?

9<sup>no</sup>

\_\_\_\_\_

10<sup>mo</sup>

\_\_\_\_\_

11<sup>mo</sup>

\_\_\_\_\_

12<sup>mo</sup>

\_\_\_\_\_

8. ¿En cuáles actividades fuera de la escuela participa el estudiante?

9<sup>no</sup>

\_\_\_\_\_

10<sup>mo</sup>

\_\_\_\_\_

11<sup>mo</sup>

\_\_\_\_\_

12<sup>mo</sup>

\_\_\_\_\_

9. ¿Cuáles son los planes de entrenamiento y aprendizaje del estudiante después de graduación?

9<sup>no</sup>

\_\_\_\_\_

10<sup>mo</sup>

\_\_\_\_\_

11<sup>mo</sup>

\_\_\_\_\_

12<sup>mo</sup>

\_\_\_\_\_

10. ¿Cuáles son las metas personales y/o sociales del estudiante?

9<sup>no</sup>

\_\_\_\_\_

10<sup>mo</sup>

\_\_\_\_\_

11<sup>mo</sup>

\_\_\_\_\_

12<sup>mo</sup>

\_\_\_\_\_



**EL PASO SIGUIENTE ("NEXT STEP"): PLANEACIÓN Y ENLACE**

Nombre del  
estudiante \_\_\_\_\_

# del  
estudiante \_\_\_\_\_

**¿Qué necesita el estudiante para prepararse para el éxito después de terminar la escuela?**

<i>Necesidades estudiantiles</i>	<i>Actividades y estrategias</i>				
	<b>9<sup>no</sup> Grado</b>	<b>10<sup>mo</sup> Grado</b>	<b>11<sup>mo</sup> Grado</b>	<b>12<sup>mo</sup> Grado</b>	
<b>Apoyo académico y destrezas de estudio</b>	Tutoría	Tutoría	Tutoría	Tutoría	
	Grupo de estudio	Grupo de estudio	Grupo de estudio	Grupo de estudio	
	Otro	Otro	Otro	Otro	
<b>Experiencias fuera de la escuela</b>	Gobierno estudiantil	Gobierno estudiantil	Gobierno estudiantil	Gobierno estudiantil	
	Atletismo	Atletismo	Atletismo	Atletismo	
	Otro	Otro	Otro	Otro	
<b>Experiencia con opciones educativas y opciones de carreras</b>	Matriculación concurrente	Matriculación concurrente	Matriculación concurrente	Matriculación concurrente	
	Viajes a colegios	Viajes a colegios	Viajes a colegios	Viajes a colegios	
	Siguiendo a otros en el trabajo	Siguiendo a otros en el trabajo	Siguiendo a otros en el trabajo	Siguiendo a otros en el trabajo	
	Otro	Otro	Otro	Otro	
<b>Apoyo de la familia y apoyo social</b>	Participación de padres	Participación de padres	Participación de padres	Participación de padres	
	Dirección estudiantil	Dirección estudiantil	Dirección estudiantil	Dirección estudiantil	
	Guiar	Guiar	Guiar	Guiar	
<b>Pruebas requeridas para entrar al colegio</b>	Evaluación/Pruebas	Evaluación/Pruebas	Evaluación/Pruebas	Evaluación/Pruebas	
	Evaluación de carreras	Evaluación de carreras	Evaluación de carreras	Evaluación de carreras	
	Evaluación académica	Evaluación académica	Evaluación académica	Evaluación académica	
	Otro	Otro	Otro	Otro	
<b>Otro</b>					

*Nota: "Ningún estudiante será adelantado desde grados 9, 10, o 11 si no ha desarrollado y/o ha añadido información nueva en sus planes de siguientes pasos dentro de sesenta días antes del fin del año escolar."*

*\*Vea la p. 11: Los 16 grupos de carreras*

Grupo de Carrera: \_\_\_\_\_

Camino de Carrera: \_\_\_\_\_

Nombre del Estudiante \_\_\_\_\_

Fecha \_\_\_\_\_

**Este plan de estudio debe servir como una guía, junto con otros medios de planear la carrera, mientras continúas planeando tu camino de carrera.** Los cursos delineados dentro de este plan son sólo recomendaciones y deben ser individualizados para así poder alcanzar las metas educativas y profesionales de cada estudiante. Cada plan debe cumplir con los requisitos para la graduación de la preparatoria y con los requisitos para entrar a la universidad.

Preparatoria	Grado 9	Grado 10	Grado 11	Grado 12
	Inglés 1	Inglés 2	Inglés 3	Inglés 4
	Álgebra 1	Geometría	Álgebra II o Trigonometría	<i>Electivo del Grupo de Carrera:</i>
	Ciencias Integradas 1	Ciencias Integradas 2	Ciencias: Ver 9 & 10 – <i>A Guide to Career Clusters and Pathways</i>	<i>Electivo del Grupo de Carrera:</i>
	Principios de la democracia	Historia de Nuevo México	Historia de los Estados Unidos	Historia del mundo
	Idioma extranjero	Idioma extranjero	* Destrezas de comunicación o Curso de educación de negocios o Nivel 3 de idioma extranjero	<i>Electivo del Grupo de Carrera:</i>
	Educación física	<i>Electivo del Grupo de Carrera:</i>	<i>Electivo del Grupo de Carrera:</i>	<i>Electivo del Grupo de Carrera:</i>
	<i>Electivo del Grupo de Carrera:</i>	<i>Electivo del Grupo de Carrera:</i>	<i>Electivo del Grupo de Carrera:</i>	<i>Electivo del Grupo de Carrera:</i>
	<i>Electivo del Grupo de Carrera:</i>	<i>Electivo del Grupo de Carrera:</i>	<i>Electivo del Grupo de Carrera:</i>	<i>Electivo del Grupo de Carrera:</i>
<i>Sustitución de Curso(s):</i>	<i>Sustitución de Curso(s):</i>	<i>Sustitución de Curso(s):</i>	<i>Sustitución de Curso(s):</i>	
Postgrado	Community College		Universidad	Servicio Militar, Trabajo, u Otro
	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

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_____ Firma del Padre	_____ Fecha	_____ Firma del Estudiante	_____ Fecha	_____ Firma del Consejero	_____ Fecha
_____ Firma del Padre	_____ Fecha	_____ Firma del Estudiante	_____ Fecha	_____ Firma del Consejero	_____ Fecha
_____ Firma del Padre	_____ Fecha	_____ Firma del Estudiante	_____ Fecha	_____ Firma del Consejero	_____ Fecha
_____ Firma del Padre	_____ Fecha	_____ Firma del Estudiante	_____ Fecha	_____ Firma del Consejero	_____ Fecha

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

<b>Student Name:</b> <i>Nombre del estudiante</i> _____	<b>Student ID #</b> <i># de identificación</i> _____
<b>Home Address:</b> <i>Dirección</i> _____	<b>City, State, Zip:</b> <i>Ciudad, Estado, Zona Postal</i> _____
<b>Parent/Guardian Name:</b> <i>Nombre del padre/Tutor</i> _____	<b>Phone Number:</b> <i>Número de teléfono</i> _____
	<b>Projected Graduation Date:</b> <i>Fecha de graduación proyectada:</i> _____

**What is the student's long-term career interest? *¿Cuál es el interés del estudiante en su carrera de largo plazo?***

**What does the student plan to do after high school? *¿Qué espera hacer el estudiante después de la escuela preparatoria?***

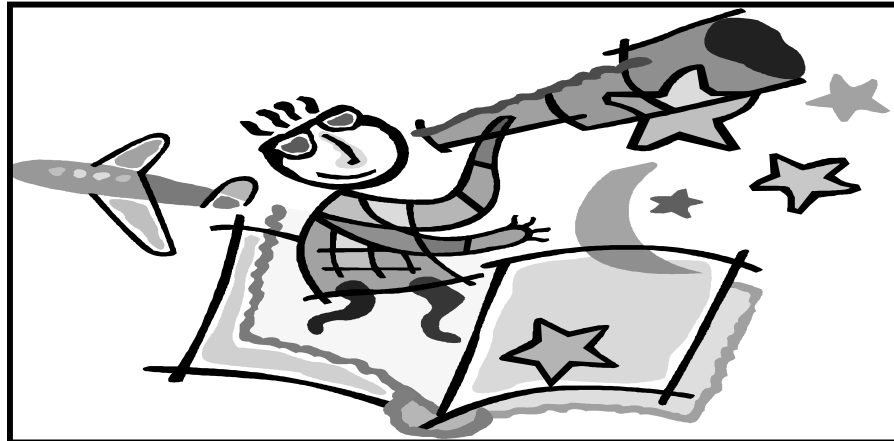
<b>Check appropriate box</b> <i>Marca la caja apropiada.</i>	<b>Write a narrative (descriptive statement) about your plans in the space provided. <i>Escribe un narrativo (una oración descriptiva) explicando sus planes en el espacio de abajo.</i></b>
<input type="checkbox"/> Bachelor Degree Program <i>Programa Bachiller</i>	_____
<input type="checkbox"/> Public College/University (name) <i>Colegio/Universidad Público (nombre)</i>	_____
<input type="checkbox"/> Private College/University (name) <i>Colegio/Universidad Privado (nombre)</i>	_____
<input type="checkbox"/> Associate Degree Program <i>Programa de Curso Asociado</i>	_____
<input type="checkbox"/> Trade Certificate Program <i>Programa de certificación técnico</i>	_____
<input type="checkbox"/> Military Service (branch) <i>Servicio militar</i>	_____
<input type="checkbox"/> Work/Study/Apprenticeship Program <i>Programa de trabajar/estudiar/aprendizaje</i>	_____
<input type="checkbox"/> On-the-Job Training <i>Entrenamiento en el trabajo</i>	_____
<input type="checkbox"/> Work <i>Trabajo</i>	_____
<input type="checkbox"/> Other <i>Otro</i>	_____

**How does the student intend to accomplish these goals? *¿Cómo espera el estudiante 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: _____	

# Un guía a los grupos y caminos de carreras



**Estudiantes de Chaparral High  
School ¡Descubran su futuro!**

**Las conexiones al  
empleo, las descripciones de  
los cursos, y el reglamento  
de la escuela**