

# Granada Pathways Menus

## Arts, Media and Entertainment

### Design, Visual and Media Arts

Student is a completer if they:

- Enroll in and complete either Animation and Motion Graphics or Honor Artist Portfolio
- Enroll in Computer Graphics 1 and go on to take Animation and Motion Graphics or Honor Artist Portfolio

	Course Options	Certifications	Work Based Learning	UC a-g	Articulation (list number of units and college)
<b>Introductory Course</b>					
<b>Concentrator Course</b>	Computer Graphics 1				
<b>Capstone Course</b>	Animation and Motion Graphics  Honor Artist Portfolio  Computer Graphics 2	Prepares students for the Adobe Certified Associate and Autodesk Certified User (Dublin High School is a testing center for Certiport)	Guest Speakers Professional Portfolio Career Exploration	"F"  "F"	3 units @ Ohlone

### Game Design and Integration

	Course Options	Certifications	Work Based Learning	UC a-g	Articulation (list number of units and college)
<b>Introductory Course</b>					
<b>Concentrator Course</b>					
<b>Capstone Course</b>	Video Game Art and	Students may also complete	Guest Speakers	"F"	3 units @ Ohlone

	Design	the Autodesk Certified User and Adobe Certified Associate certification exams	Professional Portfolio Career Exploration		
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## Education, Child Development and Family Services

### **Child Development**

Students who enroll in this course and complete will be considered a completer.

	<b>Course Options</b>	<b>Certifications</b>	<b>Work Based Learning</b>	<b>UC a-g</b>	<b>Articulation (list number of units and college)</b>
<b>Introductory Course</b>					
<b>Concentrator Course</b>					
<b>Capstone Course</b>	<ul style="list-style-type: none"> <li>• ROP DevPsyChi 1 ABC</li> <li>• ROP DevPsyChi 2 ABC</li> </ul>	<ul style="list-style-type: none"> <li>• CPR Certificate</li> <li>• Eligibility to apply for assistant teacher permit with CCTC</li> </ul>	Internships at local preschools, child cares, and elementary schools Guest Speakers Field Trips	"g" "g"	6 units @LPC  6 units @LPC

## Energy, Environment and Utilities

### **Environmental Resources**

Student is a completer if they enroll in and complete AP Environmental Science

	<b>Course Options</b>	<b>Certifications</b>	<b>Work Based Learning</b>	<b>UC a-g</b>	<b>Articulation (list number of units and college)</b>
<b>Introductory Course</b>					
<b>Concentrator Course</b>					

<b>Capstone Course</b>	AP Environmental Science		Field Trips Guest Speakers Classroom Labs Integrated Projects	"d"	
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## Engineering and Architecture

### **Engineering Design**

Students enter the pathway taking Intro to Engineering Design. They move to Principles of Engineering Honors and then complete the pathway by enrolling in either Civil Engineering/Architecture Honors or Computer Integrated Manufacturing.

	<b>Course Options</b>	<b>Certifications</b>	<b>Work Based Learning</b>	<b>UC a-g</b>	<b>Articulation (list number of units and college)</b>
<b>Introductory Course</b>	PLTW Intro to Engineering Design Honors A/B		Integrated Projects Guest Speakers	"d"	
<b>Concentrator Course</b>	PLTW Principles of Engineering Honors A/B		Integrated Projects	"d"	
<b>Capstone Course</b>	PLTW Civil Eng/Architecture Honors A/B  Or  Computer Integrated Manufacture A/B		Integrated Projects	"d"	

## Health Science and Medical Technology

### **Biotechnology**

	Course Options	Certifications	Work Based Learning	UC a-g	Articulation (list number of units and college)
<b>Introductory Course</b>					
<b>Concentrator Course</b>	Principles of Biomedical Science		Field Trips Guest Speakers Classroom Labs	"d"	
<b>Capstone Course</b>					

### Patient Care

Students would be a completer in this pathway if they:

- Enrolled in Sport Medicine/Athletic Trainer A/B and went on to complete Sport Medicine/Athletic Trainer A/B/C II or
- Enrolled in and completed Medical Occupations A/B/C
- Enrolled in and completed Nursing Careers

	Course Options	Certifications	Work Based Learning	UC a-g	Articulation (list number of units and college)
<b>Introductory Course</b>					
<b>Concentrator Course</b>	ROP Sports Medicine/Athletic Trainer I A/B	CPR Certification	Community Classroom: 60 Internship hours at the school with a Certified Athletic Trainer or in a Physical Therapy Clinic (Stanford or private)	"g"	8 Units @ Chabot
	Intro to Health Careers	BLS CPR Certification	Guest Speakers Community Volunteer opportunities	"g"	2 units @ LPC
<b>Capstone Course</b>	Medical Occupations (A, B, C)	CPR BLS Eligibility to apply for CCMA-A exam	Community Classroom: 180 hours clinical hours Guest Speakers	"g"	6 units @ Chabot College

<b>Capstone Course</b>	ROP Sports Medicine/Athletic Trainer II A/B/C	CPR Certification	Classroom Labs Simulated Work Experience  Community Classroom: 90 Internship hours at a the school with a Certified Athletic Trainer, in a Physical Therapy Clinic (Stanford or private), or in a Junior College Setting	"g"	4 units at Chabot
	Nursing Careers	BLS CPR Certification	Community Classroom: 180 hours clinical hours Guest Speakers Classroom Labs Simulated Work Experience	"g"	6 units @ Chabot/LPC

## Hospitality, Tourism and Recreation

### **Food Services, and Hospitality**

Students who enroll in this pathway will start with Foods 1, then they will choose two courses to complete from the concentrator sections. They will complete the pathway by enrolling in Culinary arts 2

	<b>Course Options</b>	<b>Certifications</b>	<b>Work Based Learning</b>	<b>UC a-g</b>	<b>Articulation (list number of units and college)</b>
<b>Introductory Course</b>	Foods 1	Efoodhandler's certificate (valid for 1 year - free)	Small catering events		
<b>Concentrator Course</b>	Culinary Arts 1 Regional Cuisine Int'l Cuisine	Efoodhandler's certificate (valid for 3 years - paid for by Perkins)	Career Pathway Day at Diablo Valley College  Small catering events		Culinary I: DVC CULN 105-Intro To The Kitchen (.5 units) and DVC CULN 153- Safety & Sanitation (2 units)
<b>Capstone Course</b>	Culinary Arts 2		Career Pathway Day at		Culinary II:

			Diablo Valley College Small catering events		DVC CULN 105-Intro To The Kitchen (.5 units) and DVC CULN 153- Safety & Sanitation (2 units)
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## Information and Communication Technologies

### Games and Simulations

	Course Options	Certifications	Work Based Learning	UC a-g	Articulation (list number of units and college)
<b>Introductory Course</b>	Game Design 1 A		Career Mentoring Informational Interview Guest Speaker	"g"	
<b>Concentrator Course</b>	Game Design 1 B		Career Mentoring Informational Interview Guest Speaker	"g"	
<b>Capstone Course</b>					

### Networking

Students can be completers of this pathway if they

- Begin in Computer Apps, move to PLTW Cybersecurity A/B and then complete the pathway with Internet Engineering 1 A/B
- Begin in Computer APps, move to IT Essentials A/B (Cybersecurity: ICT Essentials) and then complete with Internet Engineering 1 A/B
- Begin with PLTW Cybersecurity A/B or IT Essentials A/B (Cybersecurity: ICT Essentials) and complete with Internet Engineering 1 A/B

	Course Options	Certifications	Work Based Learning	UC a-g	Articulation (list number of units and college)
<b>Introductory Course</b>	Computer Apps		LLNL Job Shadow Day		
<b>Concentrator Course</b>	PLTW Cybersecurity		WorkPlace Challenge	"g"	

	A/B IT Essentials A/B (Cybersecurity: ICT Essentials)	Prepares students for the A+ Certification Exam	Guest Speakers Classroom Lab Simulated Work Experience	"g"	4 units @ LPC
<b>Capstone Course</b>	Internet Engineering 1 A/B  Internet Engineering 2 A/B	Prepares students for the Cisco CCNA Networking Certification and A+ industry certification	Classroom Lab Simulated Work Experience	"g"	3 units @ LPC

### Software and Systems Development

Students would complete this pathway by taking one of the introductory courses, continuing on to one of the concentrator courses and completing with AP Computer Science Principles A/B or AP Computer Science. Students must have a sequence of 4 trimester courses and the last course in the sequence must be a capstone.

	Course Options	Certifications	Work Based Learning	UC a-g	Articulation (list number of units and college)
<b>Introductory Course</b>	<ul style="list-style-type: none"> <li>Exploring Computer Science A</li> <li>Intro to Computer Programming</li> <li>Computer Apps</li> <li>Robotics A/B</li> </ul>		<ul style="list-style-type: none"> <li>Career Awareness Activity: LLNL Job Shadow Day</li> <li>Guest Speakers</li> <li>College Visits: Grand Canyon Univ and Cogswell College</li> <li>CTE Career Fair</li> </ul>	<ul style="list-style-type: none"> <li>Exploring Computer Science ("g")</li> <li>Intro to Computer Programming ("g")</li> </ul>	
<b>Concentrator Course</b>	<ul style="list-style-type: none"> <li>Web Page Design</li> <li>PLTW Computer Science Principles A/B</li> </ul>		<ul style="list-style-type: none"> <li>Job Shadow: LLNL Job Shadow Day</li> </ul>	<ul style="list-style-type: none"> <li>PLTW Computer Science Principles A/B ("d")</li> </ul>	

<b>Capstone Course</b>	<ul style="list-style-type: none"> <li>• AP Computer Science Principles A/B</li> <li>• AP Computer Science A (A/B)</li> </ul>		<ul style="list-style-type: none"> <li>• Competitions: Hackathons and Codequest by Lockheed Martin</li> <li>• Volunteering: Teach middle school technical class lesson at Joe Michell</li> </ul>	<ul style="list-style-type: none"> <li>• AP Computer Science Principles A/B("d")</li> <li>• AP Computer Science A ("c")</li> </ul>	
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## Manufacturing and Product Development

### **Machine and Forming Technologies**

A student that completes all 4 courses in sequential order would be considered a completer.

	<b>Course Options</b>	<b>Certifications</b>	<b>Work Based Learning</b>	<b>UC a-g</b>	<b>Articulation (list number of units and college)</b>
<b>Introductory Course</b>	Machine Tool 1		Integrated Projects Guest Speakers		
<b>Concentrator Course</b>	Machine Tool 2		Integrated Projects Virtual Field trips		
<b>Capstone Course</b>	Adv Mach Tool 3 Adv Mach Tool 4		Integrated Projects		

## Marketing, Sales, and Services

### **Marketing**

	<b>Course Options</b>	<b>Certifications</b>	<b>Work Based Learning</b>	<b>UC a-g</b>	<b>Articulation (list number of units and college)</b>
<b>Introductory Course</b>	ROP Introduction to Business Careers				
<b>Concentrator Course</b>	ROP Marketing Communications A/B		Cooperative Vocational Education Opportunities	"g"	Possibility of 7 units from Chabot



			Student Run Enterprise, Guest Speakers, DECA, Career Exploration		
<b>Capstone Course</b>	ROP Economic of Business Ownership A/B  Sports and Entertainment Marketing		Cooperative Vocational Education Opportunities Student Run Enterprise, Guest Speakers, DECA, Career Exploration	"g"  "g"	Possibility of 7 units from Chabot

## **Public Services**

### **Emergency Response**

	<b>Course Options</b>	<b>Certifications</b>	<b>Work Based Learning</b>	<b>UC a-g</b>	<b>Articulation (list number of units and college)</b>
<b>Introductory Course</b>					
<b>Concentrator Course</b>					
<b>Capstone Course</b>	Emergency Medical Responder	EMR Certification CPR Certification	Classroom Lab Simulated Work Experience Guest Speakers		3 units @ LPC

### **Public Safety**

Students are completers if:

- They complete Introduction to Criminal Justice and then ROP Criminal Justice Academy or
- Enroll in and complete ROP Criminal Justice Academy

	<b>Course Options</b>	<b>Certifications</b>	<b>Work Based Learning</b>	<b>UC a-g</b>	<b>Articulation (list number of units and college)</b>

<b>Introductory Course</b>					
<b>Concentrator Course</b>	Introduction to Criminal Justice/Crime Scene Investigation	CPR	Guest speakers, field trips, possible internships	"g"	LPC 6 units
<b>Capstone Course</b>	ROP Criminal Justice Academy ABC	CPR	Job shadow, mentors, possible internships, service learning, mock interviews	"g", Honors Distinction	LPC 16 units

## Transportation

### **Structural Repair and Refinishing**

Students enter pathway at the concentrator level and complete the pathway by completing the Advanced Auto Body Repair course A/B/C

	<b>Course Options</b>	<b>Certifications</b>	<b>Work Based Learning</b>	<b>UC a-g</b>	<b>Articulation (list number of units and college)</b>
<b>Introductory Course</b>					
<b>Concentrator Course</b>	ROP Auto Body Repair A ROP Auto Body Repair B ROP Auto Body Repair C	ASE, I-CAR (coming 21-22 school year)	Guest speakers, field trips, possible internships, classroom laboratory	"g"	N/A, coming 21-22 school year
<b>Capstone Course</b>	ROP Advanced Auto Body Repair A ROP Advanced Auto Body Repair B ROP Advanced Auto Body Repair C	ASE, I-CAR (coming 21-22 school year)	Guest speakers, field trips, possible internships, classroom laboratory	"g"	N/A, coming 21-22 school year

### **Systems Diagnostics, Services, and Repair**

A student that completes all 4 courses in sequential order would be considered a completer.

	<b>Course Options</b>	<b>Certifications</b>	<b>Work Based Learning</b>	<b>UC a-g</b>	<b>Articulation (list number of units and college)</b>
<b>Introductory Course</b>	Auto Tech 1	Sp2 Mechanical Safety Cert.	Integrated Projects Guest Speakers		
<b>Concentrator Course</b>	Auto Tech 2	Sp2 Pollution Prevention Cert.	Integrated Projects		
<b>Capstone Course</b>	Adv Auto Tech 3 Adv Auto Tech 4	Automotive Lift Certification	Integrated Projects		5 Units @ LPC