

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
ACCT 103	Financial Accounting	4
BUS 205	Business Writing	3
ECON 102	Principles of Economics (Micro)	3
MATH 120	Elementary Statistics	3
POSC 101	Intro to Politics/American Political Institutions	3
POSC 102	Intro to United States/California Governments	3
POSC 130	Introduction to Public Administration	3
TOTAL UNITS		22

Public Works Management (PWM)

Contact Occupational & Noncredit Programs for further information, (760) 744-1150, ext. 2284

Associate in Arts degree requirements, Certificate of Achievement requirements, and Certificate of Proficiency requirements are listed in Section 6 (green pages) of the catalog.

PROGRAM OF STUDY

Public Works Management - Level I

Specifically designed for individuals employed by or seeking employment in public works organizations in San Diego County. Provides an overview for field personnel of the basic elements of the Public Works Industry and introduces students to administrative responsibilities and planning. This certification level prepares field personnel for "Lead Worker" positions. This is a cooperative program offered by Citrus, Palomar and Santiago Canyon Colleges in collaboration with and approved by the Maintenance Superintendents Association and American Public Works Association.

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Program Requirements		Units
PWM 50	Introduction to Public Works	3
PWM 51	Street Construction and Maintenance	3
PWM 52	Asphalt and Portland Cement	3
PWM 53	Public Works Inspection	3
IT 100	Technical Mathematics	3
Electives (Select 3 units)		
PWM 56	Parks and Landscape Management	3
PWM 58	Discharge Compliance Fundamentals	3
BMGT 101	Introduction to Management	3
BUS 125	Business English	3
BUS 138	Business Ethics	2
BUS 187	Project for Business	1
SPCH 115	Interpersonal Communication	3
SPCH 165	Leadership Communication	3
TOTAL UNITS		18

Public Works Management - Level II

Specifically designed for individuals employed by or seeking employment in public works organizations in San Diego County. Introduces management and administrative concepts to field staff. Classes are designed to prepare Lead Workers for front line supervisory positions in the Public Works field. This is a cooperative program offered by Citrus, Palomar and Santiago Canyon Colleges in collaboration with and approved by the Maintenance Superintendents Association and American Public Works Association.

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Program Requirements		Units
PWM 50	Introduction to Public Works	3
PWM 51	Street Construction and Maintenance	3
PWM 52	Asphalt and Portland Cement	3
PWM 53	Public Works Inspection	3
PWM 55	Public Works Administration	3
PWM 57	Plan Interpretation and Cost Estimating	3
Electives (Select 6 units)		
PWM 56	Parks and Landscape Management	3
PWM 58	Discharge Compliance Fundamentals	3
BMGT 101	Introduction to Management	3
BUS 125	Business English	3
BUS 138	Business Ethics	2
BUS 187	Project for Business	1
SPCH 115	Interpersonal Communication	3
SPCH 165	Leadership Communication	3
TOTAL UNITS		33

Electives (Select 6 units)

PWM 56	Parks and Landscape Management	3
PWM 58	Discharge Compliance Fundamentals	3
BMGT 101	Introduction to Management	3
BUS 125	Business English	3
BUS 138	Business Ethics	2
BUS 187	Project for Business	1
SPCH 115	Interpersonal Communication	3
SPCH 165	Leadership Communication	3

TOTAL UNITS 33

*Public Works Management - Level II A.A. Degree Major or Certificate of Achievement pending approval by the California Community Colleges System Office at the time of catalog publication.

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

PWM 50 Introduction to Public Works (3)

3 hours lecture

Designed by the American Public Works and Maintenance Superintendents Associations in order to prepare public works and maintenance workers for lead and supervisory positions. Students will receive an introduction to techniques, materials and equipment used in public works, maintenance and repair projects.

PWM 51 Street Construction and Maintenance (3)

3 hours lecture

Recommended preparation: MATH 15
Provides instruction on street construction and maintenance; including materials and methods, specifications, records and cost accounting systems, revenue sources and budget preparation. Other subjects include safety, drainage, equipment records and specifications, as well as public relations. Codes and industry standards that pertain to improvements and repair will be reviewed.

PWM 52 Asphalt and Portland Cement (3)

3 hours lecture

Recommended preparation: MATH 15
Provides instruction on the recommended procedures, practices, and testing criteria used by the Asphalt Institute highlighting local city and county asphalt requirements. Content includes specifications for roads, runway floors, and hydraulic structures and Portland Cement concrete design and uses. Includes transporting, placing, curing, and testing concrete as well as application and construction methods employed.

PWM 53 Public Works Inspection (3)

3 hours lecture

Recommended preparation: MATH 15
Provides an overview of the inspector's role and responsibilities as it relates to a project. The student will be given the necessary information and training necessary for entry level inspection responsibilities. The course will apply to construction of municipal infrastructure and civil engineering type projects.

PWM 55 Public Works Administration (3)

3 hours lecture

Provides an introduction to the organizational concepts used by the Public Works Department. Content includes typical organization, management concepts, political considerations, planning, financial management and public relations.

PWM 56 Parks and Landscape Management (3)
2½ hours lecture-1½ hours laboratory
 Survey of parks and landscape management, operations, and maintenance techniques in various parks and landscapes. Content will include the principles of parks and landscape management, design, construction, maintenance and operations, public parks, landscape management and administration principles. Specific topics will include turf, landscape, park equipment, pesticide use, park facilities, trails design and construction, irrigation system design and maintenance, installation, and maintenance practices for basic elements of landscape irrigation systems, and playground design and maintenance.

PWM 57 Plan Interpretation and Cost Estimating (3)
3 hours lecture
Recommended preparation: A minimum grade of 'C' in MATH 15
 Provides a basic introduction into reading and interpreting construction plans related to public works and street improvement projects. Will provide the student with the fundamental understanding of how construction plans relate to actual construction and how to use the plans to determine the quantity of materials needed to complete the work proposed on the plans and to estimate a cost for the completion of the work.

PWM 58 Discharge Compliance Fundamentals (3)
3 hours lecture
 Study of regulatory discharge compliance fundamentals of the Regional Water Quality Control Board point source and non-point source permitting process. Course study includes collection systems, storm water, and recycled water permit and reporting compliance.

PWM 125 Supervision (3)
3 hours lecture
Note: Cross listed as WTE 125/WWT 125
 Managerial aspects of public utilities including organization, decision making, coordination, communication, and public relations. Personnel management including recruiting, training, evaluation, discipline, promotion, morale, and grievances. Safety programs and encouraging safe conditions, actions and attitudes.

Radio and Television (RTV)

See also Communications

Contact the Communications Department for further information, (760) 744-1150, ext. 2440

Associate in Arts degree requirements, Certificate of Achievement requirements, and Certificate of Proficiency requirements are listed in Section 6 (green pages) of the catalog.

PROGRAMS OF STUDY

Digital Media

Digital Media encompasses digital video editing in both analog and digital media. The certificate prepares students for employment in the film, video, Internet, and television industries. Major growth in this industry is anticipated as Internet and television merge into one medium.

CERTIFICATE OF PROFICIENCY

Program Requirements	Units
CINE/RTV 125 or Beg Film/Video Field Production	
GCIP/	
R GCIP 140 Digital Imaging/Photoshop I	3
GCMW 204 Motion Graphics for Multimedia	3
GCMW 205 Digital Video for Multimedia	3
RTV 270 Computer Video Editing	3
RTV 275 Avid Editing for Television & Film	3
TOTAL UNITS	15

Digital Media Certificate of Achievement is also listed under Graphic Communications - Multimedia and Web.

Digital Video

Digital Video encompasses editing and design in using both digital and analog media. This degree prepares students for employment in the film, video, Internet, and television industries.

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Program Requirements	Units
GCIP/	
R GCIP 140 Digital Imaging/PhotoShop I	3
GCMW 165 Digital Video Design	3
GCMW 204 Motion Graphics for Multimedia	3
GCMW 205 Digital Video for Multimedia	3
RTV/CINE 125 Beg Film/Video Field Production	3
RTV 230 Digital Audio with Pro Tools	3
RTV 270 Digital Video Editing	3
RTV 275 Avid Editing for Television and Film	3
Electives (2 courses minimum required, 6 units total)	Units
ARTI 246 Digital 3D Design and Modeling	3
ARTI 247 Digital 3D Design and Animation	3
DT 180 3D Studio Max-Intro to 3D Modeling/Animation	3
GCIP/	
R GCIP 152 Desktop Publishing/Illustrator I	3
GCIP 240 Digital Imaging/PhotoShop III	3
GCMW/	
R GCMW 101 Multimedia I	3
GCMW 201 Multimedia II	3
GCMW 203 Web Multimedia	3
GCMW 108 Web Motion Graphics I	3
GCMW 208 Web Motion Graphics II	3
RTV 50 Basic Television Acting	1
RTV 110 Broadcast Writing and Producing	3
RTV/ENTT 120 Digital Television Production	3
RTV 150 Performance and Acting for Broadcast and Film	3
RTV 170 Introduction to Video Editing	3
RTV/CINE 225 Intermediate Film and Video Field Production	3
TOTAL UNITS	30

Digital Video A.A. Degree Major or Certificate of Achievement is also listed under Graphic Communications - Multimedia and Web.

Entertainment Technology

This program will prepare students for employment in the fields of entertainment technologies at entry level. The areas of potential employment include theme parks, casinos, cruise ships, concerts, gallery display and design, event installations, live event technical support, and theatre venues providing non-theatre related events. Basic rigging and production safety will be a component of this program.

CERTIFICATE OF ACHIEVEMENT*

Program Requirements	Units
CSIS 108 Hardware and O.S. Fundamentals	3
ENTT 100 Introduction to Entertainment Technology	1
ENTT/RTV 103 Introduction to Audio-Visual Systems	3
ENTT/TA 105 Introduction to Technical Theatre	2.5
ENTT/TA 107 Lighting for Stage and Television	3
ENTT/TA 112 Entertainment Audio Production	3
ENTT/RTV 130 Radio Production	3
TA 197D Stage Crew Workshop	2
TA 297 or Experimental Topics in Theatre	
ENTT/RTV 294B Television Internships/Production	1
Electives (Select 11 units)	
ENTT/RTV 294B Television Internships/Production	1,2,3
FASH 126 Fashion Show Presentation	1
FASH 135 Basic Sewing Construction	3