

Palomar College Catalog 2009-2010

Drafting Technology (DT)

Contact the Design and Consumer Education Department for further information.

(760) 744-1150, ext. 2349

Office: ST-49

Associate in Arts Degrees -

AA Degree requirements are listed in Section 6 (green pages).

- Architectural Drafting Technology
- Computer Assisted Drafting
- Drafting Technology - Multimedia
- Drafting Technology - Technical
- Electro-Mechanical Drafting and Design
- Interactive Media Design - Emphasis in 3D Modeling and Animation
- Interactive Media Design - Emphasis in Multimedia Design

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

- Architectural Drafting Technology
- Computer Assisted Drafting
- Drafting Technology - Multimedia
- Drafting Technology - Technical
- Electro-Mechanical Drafting and Design
- Interactive Media Design - Emphasis in 3D Modeling and Animation
- Interactive Media Design - Emphasis in Multimedia Design

PROGRAMS OF STUDY

Architectural Drafting Technology

Prepares students for employment as a design/production drafter in the field of architecture.

Students concerned with transfer into an architectural program at a university should review specific course requirements with their architectural instructor and the Counseling Department.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
DT 105 Basic Architectural Drafting	3
DT 120 or Architectural History	
DT 121 Multicultural Architectural History	3
DT 125 AutoCAD Introduction to Computer Aided Drafting	3
DT 135 Architectural Materials/Methods Construction	3
DT 144 Architectural Drawing and Color	3
DT 145 Architectural Delineation/Pictorial Drawing	4
DT 155 Architectural Theory	2
DT 160 Environmental Architecture and Design	3
DT 200 Advanced Computer Aided Architectural Drafting	4
DT 202 Introduction to Revit Architecture	3
Electives (Select 9 units)	
CE 100 Cooperative Education	1,2,3,4
CE 105 Job Hunting Techniques	1,2,3
CSIT 120/ R CSIS 120 Computer Applications	3
DT 120 or Architectural History	
DT 121 Multicultural Architectural History	3
DT 126 AutoCAD Intermediate Computer Aided Drafting	3
DT 127 AutoCAD Customization	2
DT 129 Basic Architectural Drafting with AutoCAD	3
DT 215 Architectural Design Fundamentals I	5
DT 216 Architectural Design Fundamentals II	5
MATH 115 Trigonometry	3
TOTAL UNITS	40

Computer Assisted Drafting

Prepares students in the skills necessary for employment as a computer assisted drafting operator.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
CSIT 105 Computer Concepts and Applications	3
DT 125 AutoCAD Introduction to Computer Aided Drafting	3
DT 126 AutoCAD Intermediate Computer Aided Drafting	3
DT 127 AutoCAD Customization	2
DT 128 SolidWorks Intro to 3D Design and Presentation	3
IT/WELD 108 Technical Mathematics	3
Electives (Select 12 units)	
DT 110 Technical Drafting I with AutoCAD	4
DT 111 Technical Drafting II with AutoCAD	4
DT 140 Electronic Drafting and Design	3
DT 145 Architectural Delineation/Pictorial Drawing	4
DT 196B Special Problems/CAD	1,2,3
DT 200 Advanced Computer Aided Architectural Drafting	4
DT 210 Printed Circuit Board Design	3
BUS 205 Business Writing	3
CE 105 Job Hunting Techniques	1,2,3
MATH 110 College Algebra	4
MATH 115 Trigonometry	3
CE 100 Cooperative Education	1,2,3,4
TOTAL UNITS	29

Drafting Technology - Multimedia

Prepares students in the skills necessary for employment in the multimedia presentation field.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
DT 125 AutoCAD Introduction to Computer Aided Drafting	3
DT 126 AutoCAD Intermediate Computer Aided Drafting	3
DT 128 SolidWorks Intro to 3D Design and Presentation	3
DT 180 3D Studio Max – Intro to 3D Modeling/Animation	3
DT 182 3D Studio Max – Advanced 3D Modeling/Animation	3
DT 184 Real Time 3D Technical/Game Animation	2
IT/WELD 108 Technical Mathematics	3
Electives (Select 12 units)	
ARTD 150 Digital Concepts/Techniques in Art	3
ARTD 220 Motion Design	3
ARTI 246 Digital 3D Design and Modeling	3
ARTI 247 Digital 3D Design and Animation	3
CE 105 Job Hunting Techniques	1,2,3
COMM 100 Mass Media in America	3
CSIT 120/ R CSIS 120 Computer Applications	3
CE 100 Cooperative Education	1,2,3,4
DT 130 CAD/CAM Machining	3
DT 131 SolidWorks Adv to 3D Design and Presentation	3
DT 196B Special Problems in CAD	3
GCIP/ R GCIP 140 Digital Imaging/Photoshop I	3
GCMW/ R GCMW 100 Multimedia I	3
GCMW 201 Multimedia II	3
MATH 50 or Beginning Algebra	
MATH 60 or Intermediate Algebra	
MATH 110 or College Algebra	
MATH 115 Trigonometry	3,4
MUS 180 Computer Music I	3
TOTAL UNITS	32

Palomar College Catalog 2009-2010

Drafting Technology - Technical

Prepares students in the skills necessary for employment as a drafter in machine, mechanical, electrical, aeronautical, civil, and other related engineering fields.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
DT 100 Basic Mechanical Drawing	3
DT 110 Technical Drafting I with AutoCAD	4
DT 111 Technical Drafting II with AutoCAD	4
DT 125 AutoCAD Intro to Computer Aided Drafting	3
DT 126 AutoCAD Intermediate Computer Aided Drafting	3
DT 127 AutoCAD Customization	2
DT 128 SolidWorks Intro to 3D Design and Presentation	3
IT/WELD 108 Technical Mathematics	3
Electives (Select 6 units)	
CE 105 Job Hunting Techniques	1,2,3
CSIT 120/ R CSIS 120 Computer Applications	3
DT 130 CAD/CAM Machining	3
DT 131 SolidWorks Adv 3D Design and Presentation	3
DT 180 3D Studio Max – Intro to 3D Modeling/Animation	3
DT 182 3D Studio Max – Advanced 3D Modeling/Animation	3
DT 184 Real Time 3D Technical/Game Animation	2
DT 196B Special Problems in CAD	1,2,3
MATH 50 or MATH 60 or MATH 110 or MATH 115 Beginning Algebra Intermediate Algebra College Algebra Trigonometry	3,4
CE 100 Cooperative Education	1,2,3,4
TOTAL UNITS	31

Electro-Mechanical Drafting and Design

Drafts detailed working drawings of electro mechanical equipment and devices. Indicates dimensions, materials, and manufacturing procedures for electronic industry.

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
DT 110 Technical Drafting I with AutoCAD	4
DT 111 Technical Drafting II with AutoCAD	4
DT 125 AutoCAD Introduction to Computer Aided Drafting	3
DT 127 AutoCAD Customization	2
DT 128 SolidWorks Intro to 3D Design and Presentation	3
DT 210 Printed Circuit Board Design	3
DT 211 Advanced Printed Circuit Board Design	3
IT/WELD 108 Technical Mathematics	3
Electives (Select 6 units)	
BUS 205 Business Writing	3
CSIT 120/ R CSIS 120 Computer Applications	3
DT 126 AutoCAD Intermediate Computer Aided Drafting	3
DT 130 CAD/CAM Machining	3
DT 131 SolidWorks Advanced 3D Design and Presentation	3
DT 196A Special Problems in Drafting	1,2,3
DT 196B Special Problems in CAD	1,2,3
MATH 110 College Algebra	4
CE 100 Cooperative Education	1,2,3,4
TOTAL UNITS	31

Interactive Media Design

Prepares students with specific skills necessary for employment in the field of multimedia design and production. Students may choose an emphasis in either

3D modeling and animation, which emphasizes production skills and authoring systems, or multimedia design, which emphasizes content development and visual design of multimedia productions. Both areas of emphasis collaborate on an actual multimedia production.

Emphasis in 3D Modeling and Animation

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
ARTI 100 Introduction to Illustration	3
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
DT 182 3D Studio Max – Adv 3D Modeling/Animation	3
GCIPI/ R GCIPI 140 Digital Imaging/Photoshop I	3
GCMW 204 Motion Graphics for Multimedia	3
Electives (Select two courses)	
ARTD 150 Digital Concepts/Techniques in Art	3
ARTD 220 Motion Design	3
DT 128 SolidWorks Intro 3D Design and Presentation	3
DT 184 Real Time 3D Technical/Game Animation	2
GCIPI 240 Digital Imaging/Photoshop III	3
GCMW 100 History of Multimedia	3
GCMW 201 Multimedia II	3
ENTT/RTV 120 Digital Television Production	3
RTV 124 Staging and Lighting for Television	3
TOTAL UNITS	26 – 27

Emphasis in Multimedia Design

A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
ARTD 100 Graphic Design I	3
ARTD 220 Motion Design	3
ARTI 247 Digital 3D Design and Animation	3
GCIPI 240 Digital Imaging/Photoshop III	3
GCMW/ R GCMW 101 Multimedia I	3
GCMW 201 Multimedia II	3
GCMW 204 Motion Graphics for Multimedia	3
Electives (Select two courses)	
ART 197G Topics in Art – Computer Art	3
ARTD 150 Digital Concepts and Techniques in Art	3
ARTI 246 Digital 3D Design/Modeling	3
DT 180 3D Studio Max – Intro to 3D Modeling/Animation	3
DT 182 3D Studio Max – Adv 3D Modeling/Animation	3
GC 100 Graphic Communications	3
GCIPI/ R GCIPI 140 Digital Imaging/Photoshop I	3
GCIPI/ R GCIPI 152 Desktop Publishing/Illustrator I	3
GCMW 197B Topics in Multimedia	3
GCMW/ R GCMW 102 Web Page Layout I	3
GCMW 203 Web Multimedia	3
MUS 180 Computer Music I	3
RTV 170 Introduction to Video Editing	3
TOTAL UNITS	27

Interactive Media Design A.A. Degree or Certificate of Achievement is also listed in Art and in Graphic Communications.