

DIVISION	Science
DIVISION DEAN	Susan Bangasser, Ph.D.
FACULTY CHAIR	John Stanskas, Ph.D. (909) 384-8268
OTHER FACULTY	Judy Jorgensen, B.S.

The areas of study include how to develop a better quality of life through efficient housing, new building material development, new construction methods, new work methods, solar and wind power, efficient use of resources, and a reduction of waste in materials and time. A learning-by-doing approach is stressed in preparation for the job market or transfer to a university for further study in architecture, architectural engineering, city planning, or landscape architecture. Students planning to transfer to a four-year institution and major in one of these fields should consult with a counselor regarding the transfer process and lower division requirements.

Core of competencies emphasized by courses in this department:

- Read and retain information
- Employ vocabulary of the subject studied
- Utilize technology to organize and present information
- Demonstrate working knowledge of basic computer function
- Apply learned knowledge to new situations
- Evaluate diverse artistic works
- Demonstrate creative thought through original expression

ARCHITECTURAL DESIGN ASSOCIATE OF ARTS DEGREE

To graduate with a specialization in Architectural Design Studies, a student must complete the following courses in addition to the general breadth requirements for an Associate's Degree. For transfer students, these courses will provide students with the tools needed to construct a portfolio that will be required to transfer into Architecture Programs at four-year institution. Along with a successful portfolio, these courses should also constitute the first two years of an Architecture Program. In addition, these courses should help students interested in transferring to four-year institutions as Environmental Design, Landscape Architecture, Interior Design, and Urban Planning majors.

REQUIRED COURSES	UNITS
ARCH 100 Environmental Design I	3
ARCH 101 Environmental Design II	3
ARCH 145 History of Architecture: Ancient to Gothic	3
ARCH 146 History of Architecture: Renaissance to Modern	3
ARCH 200 Architectural Design I	4
ARCH 201 Architectural Design II	4

ARCH 220 Architectural CAD I	4
ARCH 250 Materials and Construction	4
ARCH 270 Portfolio Design	1
PHYSIC 150A General Physics for the Life Sciences I	5
or	
PHYSIC 200 General Physics	(6)
ARTS 132x4 Life Drawing	3
TOTAL UNITS	37-38

RECOMMENDED COURSES

Students are encouraged to take these courses as part of their General Education program.

CS 110 Introduction to Computer Science	3
ART 120 Two-Dimensional Design	3
ART 145 Graphic Design	3
MATH 093 Plane Geometry	3
MATH 103 Trigonometry	4

COMPUTER-AIDED DRAFTING TECHNICIAN CERTIFICATE

This certificate is designed to prepare students for entry-level work in the fields of architecture, urban planning, interior design, electronics design and manufacturing design. Computer-Aided Drafting, CAD, is the primary tool used to produce and present work completed in these fields. Students completing this certificate will most likely work for a licensed architect, structural engineer, mechanical engineer or for local state or federal governmental agencies or urban planning commissions.

REQUIRED COURSES	UNITS
ARCH 120 Intro to Computer-Aid Drafting	4
ARCH 146 History of Architecture: Renaissance to Modern	3
ARCH 220 Architectural CAD I	4
ARCH 221 Architectural CAD II	4
ARCH 250 Materials and Construction	4
MATH 093 Plane Geometry	3
ENGL 015 Preparation for College Writing	4
ART 132x4 Life Drawing	3
TOTAL UNITS	29

RECOMMENDED COURSES

Students are encouraged, but not required, to enroll in the following:

CS 110 Introduction to Computer Science	3
INSPEC 010 Fundamentals of Construction Inspection I	3
INSPEC 011A Funds. of Construction Inspection II	3
INSPEC 012A Funds. of Construction Inspection III	3