PROGRAMS

ASSOCIATE IN SCIENCE DEGREE

Computer Science

Career/Technical (Major Code: 02190)

The program of study listed below is designed for students who seek employment at the technician level in the science or mathematics fields. Completion of this program of study does not satisfy the lower-division requirements for transfer to colleges or universities. Students who plan to transfer should complete the courses listed under the Computer Science Associate in Arts degree program.

First Semester

MATH 119	Elementary Statistics	4
MATH 130	Introduction to Computer Programming	4
Second Semes	tor	
Second Senies		
MATH 140	Data Structures and Algorithms	4
MATH 250	Analytic Geometry and Calculus I	5
Third Semeste	r	
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MATH 230	Computer Organization and Architecture	4

Total units 21

Recommended Electives: MATH 251, 252, 253, 254, 260.

To earn an associate degree, additional general education and graduation requirements must be completed. See page 51.

CERTIFICATE

Computer Science

	Total units	21
MATH 230	Computer Organization and Architecture	4
Third Semeste	r	
MATH 250	Analytic Geometry and Calculus I	5
	Data Structures and Algorithms	4
Second Semes		
MATH 130	Introduction to Computer Programming	4
MATH 119	Elementary Statistics	4
First Semester	r	
Career/T	echnical (Major Code: 02191)	
	ite of Achievement	

Construction Inspection

Departments of Applied Technology, CIS/Electronics, and Administration of Justice

Dean Terry Davis, M.H.A., Office 1000K, 619-482-6551 Department Chair David Preciado, A.A.

General Description

Construction Inspection is the study of the design, fabrication, codes, inspection processes, and licensure governing the construction of structures, both residential and commercial. This program explores blueprint reading, site plans, cost estimation, construction materials, soil engineering, mechanical construction, inspection procedure, building codes, quality control management, and license laws for contractors.

Career Options

Below is a sample of the options for construction inspection majors. Most require a certificate achievement or an associate in science degree, some require a bachelor's degree, and a few of these may require a graduatelevel degree: construction inspector, estimator, apprentice as a carpenter, electrician, plumber, mason, cement finisher, roofer, painter, licensed contractor, soil engineer, architect, project engineer, quality control manager, vocational teacher, and positions available in all professions of manufacturing, retail and wholesale, business, industry, and the military or government.

Degree/Certificate OptionsMajor CodeAssociate in Science Degree: Career/Technical
Construction Inspection02880Construction Management02881

Certificates of Achievement

Construction Inspection	02882
Construction Management	02883

Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.

ASSOCIATE IN SCIENCE DEGREE

Construction Inspection

Career/Technical (Major Code: 02880)

Provides entry-level training to prepare students to become construction inspectors. Construction inspectors verify that contractors and subcontractors comply with the architect's plans and the various uniform building codes. Construction inspection is recognized as a major career opportunity area by agencies of both industry and government.

First Semester

	Total units	24
CI 70	Inspection of Architectural Details and Structural Inspection	3
CI 40	Electrical Inspection	1
Fourth Sen	nector	
CI 80	Soils Engineering	J
CI 80	1	3
CI 20	Inspection of Mechanical Construction	3
Third Seme	ster	
	C C	
CI 65	Building Codes II	3
CI 50	Legal Factors of Construction Inspection	3
Second Ser	nester	
CI 60	Building Codes I	3
CI 10	Building Plans and Construction Details	3

Recommended Elective: CI 90.

To earn an associate degree, additional general education and graduation requirements must be completed. See page 51.

Construction Management

Career/Technical (Major Code: 02881)

Designed to provide students with the necessary skills and knowledge for employment within the construction industry. The construction manager is an integral member of the building team and requires a broad range of professional knowledge in the areas of construction methods and materials, building codes, cost analysis and control, construction scheduling, and consulting with the design professions during initial planning stages of a building program. Areas in which graduates of this program might work include general contracting, project management for developers, facilities management, and design-and-build architecture firms.

First Semester

ACCT 101	Principles of Accounting I	4
CI 60	Building Codes I	3
CI 90	Construction Quality Control Management	3
Second Semes	ster	
ARCH 165	Architectural Practice I	2
ARCH 200	Introduction to Computer Aided Design	3
CI 65	Building Codes II	3
Third Semeste	er	
ARCH 235	Structures	3
ARCH 265	Architectural Practice II	2
CI 80	Soils Engineering	3
Fourth Semes	ter	
ARCH 115	Architectural Graphics	3
ARCH 266	Architectural Practice III	2
BUS 140	Business Law/The Legal Environment of Business	3
	Total units	34

Recommended Electives: ARCH 205, 222, 290–293; CI 70.

To earn an associate degree, additional general education and graduation requirements must be completed. See page 51.

CERT<u>IFICATES</u>

Constru	ction Inspection
Certificate of	Achievement
Career/Techn	ical (Major Code: 02882)
First Semeste	r
CI 10	Building Plans and Construction Details
CI 60	Building Codes I
Second Seme	ster
CI 50	Legal Factors of Construction Inspection
CI 65	Building Codes II
Third Semeste	er
CI 20	Inspection of Mechanical Construction
CI 80	Soils Engineering
Fourth Semes	ter
CI 40	Electrical Inspection
CI 70	Inspection of Architectural Details and Structural Inspection

Construction Management

Total units

Certificate of Achievement

Career/Technical (Major Code: 02883)

	Total units	37
BUS 140	Business Law/The Legal Environment of Business	3
ARCH 266	Architectural Practice III	2
ARCH 209	Construction Surveying	3
ARCH 115	Architectural Graphics	3
Fourth Semes	ter	
CI 80	Soils Engineering	3
ARCH 265	Architectural Practice II	2
Third Semester ARCH 235		3
This I Caracter		
CI 65	Building Codes II	3
ARCH 200	Introduction to Computer Aided Design	3
ARCH 165	Architectural Practice I	2
Second Seme	ster	
CI 90	Construction Quality Control Management	3
CI 60	Building Codes I	3
ACCT 101	Principles of Accounting I	4
First Semeste	r	

Culinary Arts

Departments of Business, Accounting, and **Office Information Systems**

Dean Mark Meadows, Ph.D., Office 215, 619-482-6460 Department Chair Dick Wasson, M.B.A.

General Description

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The Culinary Arts program has two components-the Baking and Pastry certificate and the Cooking and Baking certificate/degree programs. These programs prepare students for work in the restaurant and hospitality industry by focusing on the development of kitchen skills and food handling techniques in both the baking and culinary specialty areas. Students will understand how to work with foods and the function of ingredients, baking and cooking methods, food economics, nutrition, and kitchen safety and sanitation. A dual focus in baking and pastry as well as culinary kitchen skills is emphasized. Oral and written communications and computer literacy skills are an integral part of the program, and a work experience internship is required at the advanced certificate and associate degree levels.

Career Options

Students completing these certificate/degree programs can gain employment at the entry level or higher depending on their previous experience. Employment exists in bakeries, large grocery chains, cafes, restaurants, hotels, resorts, childcare facilities, cafeterias, hospitals, food preparation centers, casinos, and catering facilities. Career options in the field of baking and pastry: baker, baker assistant, bakery production finisher/supervisor, pastry chef, pastry decorator, caterer, and bakery entrepreneur. Career options in the field of Culinary: entry-level prep cook, head cook, assistant chef, chef, food service supervisor, catering manager, and restaurant entrepreneur.

Degree/Certificate Options	Major Code	
Associate in Science Degree Culinary Arts: Cooking and Baking	01825	
Certificate of Achievement		
Culinary Arts: Cooking and Baking—Advanced	01824	
Professional Baking and Pastry	01820	
Certificate of Proficiency		
Culinary Arts: Cooking Essentials—Basic	01826	
Consult with a counselor to develop a Student Education Plan		

(SEP), which lists the courses necessary to achieve your academic goal.

