

HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION (HVACR)

The Heating, Ventilation and Air Conditioning (HVACR) option prepares students for employment as heating, ventilating and air conditioning technicians. Students will be trained to install, service and maintain air conditioning/refrigeration equipment in buildings. The program provides a background for more advanced studies in the design and installation of computerized building automation systems.

Employment possibilities include:

Heating, Air Conditioning Technician

Refrigeration Mechanic

Stationary Engineer

Refrigeration relates to the cooling of air or liquids, thus providing lower temperatures to preserve food, cool beverages, make ice, and for many other applications. Air conditioning includes space cooling, heating, humidification, dehumidification, air filtration, and ventilation to condition the air and improve air quality. The field of HVACR Technology is vital to our health and security, from the cryogenic (ultra low temperatures) scientific field to the preservation of our food products to the air conditioning of hospitals and institutions.

Program Outcomes

Students completing the HVACR Program will be able to:

1. Advance their knowledge in the field for employment as HVACR technicians, estimators, installer, inspectors and mechanical engineers.
2. Be prepared to take the EPA Certification test for refrigerants or the NATE Certification test for proficiency in the field of HVACR.

CERTIFICATE OF ACHIEVEMENT

Required Courses*

Course			Units
Computer Use in Technology	CHT	A100	(3)
Air Conditioning & Refrigeration Principles	HVAC	A100	(3)
Basic Electrical for HVACR	HVAC	A101	(3)
Refrigeration Service	HVAC	A102	(3)
Air Conditioning Service	HVAC	A103	(3)
Air Balance	HVAC	A104	(3)
A/C Refrigeration Controls Non-Residential	HVAC	A105	(3)
Application/HVAC	HVAC	A106	(3)
Pneumatic Controls 1	HVAC	A110	(3)
Building Automation/EMS	HVAC	A140	(3)
Total:			(30)

*A math competency level equivalent to Tech A040 is strongly recommended or satisfactory score on math competency examination.

ASSOCIATE DEGREE

Complete the Certificate of Achievement and Associate in Science Graduation Requirements as outlined in the Graduation Requirements section of the catalog.

HOTEL MANAGEMENT

—See *Hospitality, Travel & Tourism*

HOSPITALITY, TRAVEL & TOURISM

The Hotel, Travel & Tourism programs at Orange Coast College are designed for employment or career advancement within the hospitality industry. Whether an individual is a novice or currently employed, these programs strengthen the opportunity for success within the fastest growing industries in southern California.

Career opportunities abound as growth of the hospitality industry continues throughout the United States and the world requiring trained individuals to fill the multitude of varied positions. Students may choose individual courses, certification in areas of specialization, as well as, completion of an Associate in Science Degree.

The Hotel, Travel & Tourism, and Spa Management programs at Orange Coast College use materials from the Educational Institute of the American Hotel & Lodging Association, the world leader in hospitality education and training. Students who successfully complete these courses earn globally recognized certificates from the American Hotel & Lodging Association in addition to college credits applicable toward a Certificate or Associate's Degree at Orange Coast College.

To earn a certificate, complete the required coursework as listed with a "C" or better. At least 50% of all Airline, Hotel, Spa, Meeting/Event, Travel & Tourism coursework must be completed at Orange Coast College.

Students are encouraged to complete the requirements for an Associate in Science degree. Graduation requirements for an Associate degree can be found in the college catalog under Graduation Requirement. With additional coursework, students can prepare for a Bachelor's Degree in this field. For more department information, call (714) 432-5835 x6 or visit the School of Hospitality website at <http://orangecoastcollege.edu>.

Note: Curriculum may be adjusted to meet the needs of students with extensive industry related experience. Evening and weekend courses are available.

AIRLINE AND TRAVEL CAREERS

This program prepares men and women of all ages for the highly competitive customer service careers including flight attendant in the airline and travel industry. Courses include a career survey, hiring qualifications and requirements, communication skills, appearance and image standards, oral interviewing techniques, written employment seeking skills, and airline, airport, and travel terminology and codes. Students will work on campus and at John Wayne Airport, and community and charity events to gain the public contact experience considered valuable in the travel industry.

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