

CHEMISTRY

Associate in Arts Degree

Chemistry is the science that deals with the composition, structure, and properties of matter and with the changes matter undergoes. There are many different employment opportunities open to chemists. A chemist can work in a laboratory or research environment asking questions and testing hypotheses with experiments. Another possibility for a chemist is to work on a computer developing theories or models or to predict reactions. Some chemists do field work, others contribute advice on chemistry for projects. Some chemists write. Some chemists teach, while others use chemistry to enter the medical field. The Chemistry program offers two Associate degrees: Associate in Arts (A.A.) AND Associate in Science (A.S.). The courses in this program can prepare students to transfer to Bachelor of Arts or Bachelor of Science degree programs in Chemistry. To earn an Associate degree with a major in Chemistry, students must complete the core courses listed below, plus general education degree requirements. These major requirements help prepare students for upper-division course work for bachelor degrees and advanced degrees in chemistry offered by four-year institutions. Since the course work in chemistry is sequential, students may spend less time earning an associate degree by giving priority to the requirements for a major in chemistry. Earning an Associate degree in Chemistry suggests an achievement of technical skills that may be helpful in seeking immediate employment. Universities differ slightly in requirements for the Bachelor of Arts degree in Chemistry and the Bachelor of Science degree in Chemistry or Biochemistry. The Counseling Department or a member of the Science Department faculty can help students plan their coursework at Oxnard College so students have a smooth transition to the university of his or her choice. Students are advised to refer to the official articulation agreements on www.assist.org for the most current requirements of their intended transfer institution. For more information contact: Yong Ma (805) 678-5053 yma@vcccd.edu OR Dr. Anna Toy-Palmer (805) 678-5205 atoypalmer@vcccd.edu

	Required Core	e Courses	Units
	CHEM R120	General Chemistry I	5.0
		*Prerequisites: CHEM R110 and MATH R015 or MATH R005 or MATH R014	
		or MATH R033 or placement as determined by the college's multiple measures assessment process	
	CHEM R122	General Chemistry II	5.0
		*Prerequisites: CHEM R120	
	MATH R120	Calculus with Analytic Geometry	5.0
		*Prerequisites: MATH R115 or MATH R116 or MATH R117 or placement as	
		determined by the college's multiple measures assessment process	
	Required Add	itional Courses:	
	Complete a minimum of 5 units from:		
	CHEM R130	Organic Chemistry I	5.0
		*Prerequisites: CHEM R122	
	CHEM R112	Elementary Organic and Biological Chemistry	5.0
		*Prerequisites: CHEM R110 or CHEM R120	
	Complete a minimum of 10 units from the following sequences:		
٢	PHYS R121	Physics with Calculus 1	5.0
1		*Prerequisites: MATH R120	
L	PHYS R122	Physics with Calculus 2	5.0
		*Prerequisites: MATH R121	
	-Or-	Callege Dhysics 1	4.0
٢	PHYS R101	College Physics 1 *Prerequisites: MATH R116	4.0
	PHYS R101L	College Physics 1 Laboratory	1.0
	THISKIUIL	*Prerequisites: PHYS R101 or concurrent enrollment	1.0
1	PHYS R102	College Physics 2	4.0
l	1110 11102	*Prerequisites: PHYS R101	1.0
	PHYS R102L	College Physics 2 Laboratory	1.0

*Prerequisites: PHYS R102 or concurrent enrollment

Oxnard College 2019-2020



Total Required Major Units
Oxnard College General Education
Double-Counted Units
Free Electives Required

Total units required for the AA Degree

30
29
-(6)
7

60.0

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