



PHYSICS

ASSOCIATE IN ARTS FOR TRANSFER

Physics is the science of matter and its motion, the science that deals with concepts such as force, energy, mass and charge. As an experimental science, the goal in understanding physics is to understand the natural world. In one form or another, physics is one of the oldest academic disciplines; through its modern subfield of astronomy, it may be the oldest of all. Advances in physics often translate to the technological sector, and sometimes influence the other sciences, as well as mathematics and philosophy. The physics program at Oxnard College offers the Associate in Science (A.S.) degree and the Associate in Science for Transfer (AS-T). The courses in this program may prepare students for technician-level jobs or university transfer to Bachelor of Arts or Bachelor of Science degree programs in physics. **University of California Credit Limitation on Transfer of Physics Courses** The UC will give credit for only one Physics series: PHYS R101, R101L & R102, R102L or PHYS R121 & R122 or PHYS R131, R132, and R133. For more information, contact: Justin Miller (805) 678-5094 jwmiller@vcccd.edu

REQUIRED CORE CLASSES		UNITS
PHYS R131	Physics for Scientists and Engineers 1 <i>Prerequisites: MATH R120</i>	5.0
PHYS R132	Physics for Scientists and Engineers 2 <i>Prerequisites: MATH R121 and PHYS R131</i>	5.0
PHYS R133	Physics for Scientists and Engineers 3 <i>Prerequisites: MATH R122 and PHYS R132</i>	5.0
Required Core Mathematics Courses (15 units)		
MATH R120	Calculus with Analytic Geometry I <i>Prerequisites: MATH R115 and MATH R116 or MATH R117 or placement as determined by the college's multiple measures assessment process</i>	5.0
MATH R121	Calculus with Analytic Geometry II <i>Prerequisites: MATH R120</i>	5.0
MATH R122	Calculus with Analytic Geometry III <i>Prerequisites: MATH R121</i>	5.0
Total Required Major Units		30.0
CSU General Education <i>or</i> IGETC Pattern		37.0
Double-Counted Units		-(7.0)
Electives (CSU transferable units needed to reach 60)		0.0
Total Units required for the AA-T Degree		60.0