PROGRAM DESCRIPTION:
The Associate in Science for Transfer (AS-T) degree in Physics prepares students for transfer to four-year colleges and universities to obtain a baccalaureate degree in Physics. The Physics AS-T curriculum provides students a basis for understanding the physical concepts and skills required to attain upper division status at a four-year college or university, and also provide many of the prerequisite courses for engineering majors.

The program is suited to the needs of students who will complete their education at Chaffey College with an associate degree, as well as those students who will complete their Chaffey associate degree and then transfer to a four-year institution to complete their bachelor's degree. Successful completion of the transfer degree in Physics guarantees the student acceptance to a California State University (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree in physics.

HOW DO I KNOW THIS MAJOR IS FOR ME?
- You enjoy conducting research and analyzing results
- You like to study, test, and discover properties of matter and energy
- You are interested in learning about the properties of the natural world, including gravity, space, and sub-atomic particles
- You enjoy science and mathematics
- You enjoy creating charts, presentations, and reports to describe test results
- You pay close attention to details and have strong critical thinking and analytical skills
- You enjoy preparing and operating testing equipment
- You enjoy planning and conducting scientific experiments
- You have strong written communication and organization skills

WHAT CAN I DO WITH THIS ASSOCIATE DEGREE?
- Nuclear Technician
- Research Technician
- Lab Technician

WHERE CAN I WORK?
This pathway provides you with a choice of various work environments including:
- Aerospace Companies
- Colleges and Universities
- Management and Technical Consulting Services
- Pharmaceutical and Medicine Companies
- Federal/State Government
- Secondary Schools
- Manufacturing
- Research and Development Services
- Architectural and Engineering Services
- Medical Facilities
- Military
- Laboratories
- Laboratories

WHAT IS THE POTENTIAL WAGE OUTLOOK?
This Associate Degree may lead to a position as a Nuclear Technician, which according to O*NetOnline, the median salary in 2018 in California was $91,010 annually or $43.76 per hour. The job and wage outlook will vary based on the position selected within this major. To review current salary information and job outlook for other occupational titles, visit www.onetonline.org.

WHAT CAN DO IN THE FUTURE WITH MORE EDUCATION?
The positions below require at least a bachelor’s degree in Physics. According to the EDD/LMID Occupational Employment Statistics Survey, 2018 the median wage in California for a Physicist in California was $55.14 per hour. For more information, visit www.labormarketinfo.edd.ca.gov/OccGuides.
- Astronomers
- Astrophysicist
- Atmospheric and Space Scientists
- Biophysicists
- Clinical Research Coordinators
- Engineer
- Environmental Scientists
- Laboratory Managers
- Meteorologists
- Natural Science Managers
- Physicists
- Physics Teachers
- Research and Development Directors
- Research Science Managers
- High School Teacher
- Research Assistant

For additional information about career pathways and to find out if this major is a good fit for you visit the Career Center located in MACC 203. Career information was collected from www.onetonline.org and www.bls.gov.
MAJOR AND COURSE REQUIREMENTS:
To obtain the Physics AS-T degree, students must:
- Complete all the major requirements listed below with grades of C or better
- Complete a minimum of 60 CSU-transferable units with a grade point average (GPA) of 2.0 or better.
- Complete either the California State University General Education Breadth pattern (CSU GE), or the Intersegmental General Education Transfer Curriculum (IGETC).

LEGEND: G=Grade  IP=In Progress  N=Need  Bold: Prerequisites  Plain Text: No Prerequisites

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<th>Major Requirements for the Associate in Science for Transfer Degree:</th>
<th>Grade</th>
<th>IP</th>
<th>Need</th>
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<td>PHYS 47 Physics for Scientists and Engineers III</td>
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Units for the Major: 28

IGETC CSU
General Education 37 39
Total units that may be double counted 7 7
Elective (CSU transferable) units 2 0

60 60

COUNSELOR NOTES:

$46 per unit for CA Residents