

PHYSICS FOR TRANSFER (AS-T)

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.

CAREER AT A GLANCE:

HOW DO I KNOW IF 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 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
- You enjoy creating charts, presentations, and reports to describe test results

Use Focus2Career on your MyChaffey portal to learn more about careers and majors that fit you best.

WHERE CAN I WORK?

Aerospace Companies	Federal/State Government
Architectural & Engineering Services	Colleges & Universities
Military	Pharmaceutical Companies
Secondary Schools	Medical Facilities
Laboratories	Technical Consulting Services
Research and Development	

For more information visit: www.labormarketinfo.edd.ca.gov/OccGuides

HOW DO I GET STARTED?

- Start taking introductory physics and math courses
- Apply for entry level positions in reception, data entry, or customer service with employers where you would like to promote
- Job shadow and conduct informational interviews with professionals in positions you wish to have
- Include research projects on your resume
- Volunteer in schools or other research labs
- Attend university campus tours and visit the Transfer Center to decide where you want to transfer

WHAT CAN I DO WITH THIS ASSOCIATE DEGREE?

<i>Position Title</i>	<i>CA Median Salary</i>
Nuclear Monitoring Technician	\$91,010
Research Technician	\$43,370
Lab Technician	\$43,370

WHAT CAN I DO WITH HIGHER EDUCATION AND ADDITIONAL TRAINING?

<i>Position Title</i>	<i>CA Median Salary</i>
Astronomer	\$90,050
Astrophysicist	\$90,050
Space Scientist	\$95,570
Biophysicist	\$94,570
Clinical Research Coordinator	\$138,190
Environmental Engineer	\$102,110
Materials Scientist	\$94,970
Meteorologist	\$95,570
Natural Science Manager	\$138,190
Physicist	\$112,950
Physics Teacher	\$87,340
Nanosystems Engineer	\$107,150
Nuclear Engineer	\$132,880
High School Teacher	\$77,980

For more information about careers, education and training requirements, salary data, and job outlooks visit www.onetonline.org.

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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

Major Requirements for the Associate in Science for Transfer Degree:

		Grade	IP	Need	Units
MATH 65A	Calculus I				4
MATH 65B	Calculus II				4
MATH 75	Calculus III				5
PHYS 45	Physics for Scientists and Engineers I				5
PHYS 46	Physics for Scientists and Engineers II				5
PHYS 47	Physics for Scientists and Engineers III				5

Student Name: _____

ID#: _____

Date: _____

Counselor: _____

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

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