

PHYSICS

Associate of Science degree



Program and Career Description:

The Physics emphasis is a two-year program for students planning to complete a bachelor's degree in Physics. Students pursuing careers in physics instruction, basic research, industry, space and earth sciences, or seeking a graduate degree in physics should consider this degree (see <http://www.aip.org/careersvc/pify/indigo.html> for more career information). Below are a few examples of career and salary estimates.

Career	Entry-Level Education	Entry-Level Pay	Median Pay	Experienced Pay
Physicist	Doctoral degree	\$68,350	\$113,220	\$149,990
Physics Teacher, Postsecondary	Master's degree; PhD for some positions	\$46,830	\$64,710	\$95,790
Atmospheric and Space Scientists	Bachelor's degree	\$54,940	\$89,980	\$104,060

Career and salary information taken from *JOBS4TN.GOV*. Check out this website for additional information about job descriptions, education requirements and abilities, and supply and demand for these careers. For additional information from a national perspective, go to Bureau of Labor Statistics, U. S. Department of Labor on the internet at www.bls.gov. Visit the [Occupational Outlook Handbook](#) on this website. Salaries are not guaranteed.

Transfer Options

This program is a Tennessee Transfer Pathway (TTP) major. A student who completes the associates degree in this major is guaranteed that all required community college courses will be accepted in this major at the transfer institution. To see which four-year institutions offer this TTP major and guarantees a seamless transfer, visit the Tennessee Transfer Pathway website at www.tntransferpathway.org.

Articulation agreements exist between other private and non-TN public institutions. These agreements are available at www.columbiastate.edu/admissions/transfer-information.



PHYSICS

Major in Tennessee Transfer Pathway with Emphasis in Physics (A.S.)

Program Requirements

Students may be required to take additional Learning Support courses.

Communications Requirement
COMM 2025 or COMM 2055
ENGL 1010, 1020

History Requirement (Take 2 courses)
HIST 2010, 2020, 2030, 2310, 2320

Humanities/Fine Arts (Take 3 courses -- one must be a literature course)
ART 1035, 2000, 2020
ENGL 2160, 2860
HUM 1010, 1020
MUS 1030
PHIL 1030, 1040, 2200
THEA 1030
Literature Options: ENGL 2055, 2130, 2235, 2310, 2320

Natural Sciences Requirement
PHYS 2110, 2120

Mathematics Requirement
MATH 1910

Social/Behavioral Sciences (Take 2 courses)
ANTH 1230, 1430
ECON 2100, 2200
GEOG 2010
MCOM 1110
PHED 2120
POLS 1010, 1030, 2025, 2035
PSYC 1030, 2130
SOC 1010, 1040, 2010

Major Required Courses
CISP 1010*
COLS 101
MATH 1920, 2010, 2110, 2120

* CISP courses have very limited offerings and should be considered first in registration.

If you have completed TN eCampus courses, run a degree audit from the student tab in myChargerNet to determine how these courses apply to this program.

Requirements for Graduation include:

- earning 25% of total program credits in residence at Columbia State.
- earn a cumulative GPA of 2.0 or higher.
- taking the Exit Exam.

Sample Academic Plan

Students requiring MATH 1130 and MATH 1730 should take these courses prior to beginning the following pathway to ensure timely completion.

First Year – Fall Semester

___ ENGL 1010	English Composition I	3
___ Social/Behavioral Science		3
___ Humanities/Fine Arts		3
___ History Requirement		3
___ MATH 1910	Calculus I	4
___ COLS 101	Columbia State College Success	1
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First Year – Spring Semester

___ ENGL 1020	English Composition II	3
___ COMM 2025	Fundamentals of Communication or	
___ COMM 2055	Argumentation and Debate	3
___ Social/Behavioral Science		3
___ History Requirement		3
___ MATH 1920	Calculus II	4
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Second Year – Fall Semester

___ Literature Requirement		3
___ MATH 2110	Calculus III	4
___ PHYS 2110	Calculus-Based Physics I	4
___ CISP 1010*	Computer Science I	4
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Second Year – Spring Semester

___ PHYS 2120	Calculus-Based Physics II	4
___ MATH 2010	Introduction to Linear Algebra	3
___ Humanities/Fine Arts		3
___ MATH 2120	Differential Equations	3
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TOTAL CREDIT HOURS 61

At some universities, foreign language may be required in certain programs that lead to the Bachelor of Arts Degree. Complete information regarding foreign language requirements at each university may be found on the transfer and articulation web sites of the Tennessee Board of Regents and the University of Tennessee System. Community college students are encouraged to be familiar with foreign language requirements at the universities and, if applicable, complete the requirements before transferring.

For more information contact:

David Fawcett at
dfawcett@columbiastate.edu or 931.540.2665
or
Sciences, Technology and Math Division office at
931.540.2710

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