

# 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	Median Salary with BS degree	Experienced Salary Median
Physicist	\$71,280	\$100,480
Physics Teacher, Postsecondary	\$47,210	\$68,880
Atmospheric & Space Scientists	\$56,520	\$84,860

Career and salary information taken from [www.bls.gov](http://www.bls.gov). Check out this web site for additional information about education requirements and preferred work styles and abilities for these careers. Salaries are not guaranteed.

### Transfer Options

Per the *Complete College Tennessee Act of 2010*, this degree will be transferable to any of the following universities offering a Baccalaureate degree in this major:

- Austin Peay State University
- East Tennessee State University
- Middle Tennessee State University
- Tennessee State University
- Tennessee Tech University
- University of Memphis
- University of Tennessee, Chattanooga
- University of Tennessee, Knoxville
- University of Tennessee, Martin

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

ENGL 1010, 1020  
SPCH 1010 or SPCH 1030

#### History Requirement (Take 2 courses)

HIST 1110, 1120, 2010, 2020, 2030

#### Humanities/Fine Arts (Take 3 courses -- one must be a literature course)

ART 1030  
ARTH 2010, 2020  
ENGL 2015  
HUM 1130, 1131  
MUS 1030  
PHIL 1030, 2030, 2033  
THEA 1030  
Literature Options: ENGL 2130, 2230, 2310, 2320, 2920

#### Natural Sciences Requirement

PHYS 2110, 2120

#### Mathematics Requirement

MATH 1910

#### Social/Behavioral Sciences (Take 2 courses)

ANTH 1200, 1300  
ECON 2010, 2020  
GEOG 2010  
PHED 2120  
POL 201  
POLS 1030, 1501, 2010  
PSYC 1030, 2130  
SOC 1010, 1020, 2010

#### Major Required Courses

CISP 1010\*  
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.
- cumulative GPA must be 2.0.
- 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	Composition I	3
___ Social/Behavioral Science		3
___ Humanities/Fine Arts		3
___ History Requirement		3
___ MATH 1910	Calculus and Analytic Geometry I	4
___ COLS 101	Columbia State College Success	1
		<b>17</b>

#### First Year – Spring Semester

___ ENGL 1020	Composition II	3
___ SPCH 1010	Fundamentals of Speech Communication <b>or</b>	
___ SPCH 1030	Argumentation and Debate	3
___ Social/Behavioral Science		3
___ History Requirement		3
___ MATH 1920	Calculus and Analytic Geometry II	4
		<b>16</b>

#### Second Year – Fall Semester

___ Literature Requirement		3
___ MATH 2110	Calculus and Analytic Geometry III	4
___ PHYS 2110	Physics I	4
___ CISP 1010	Computer Science I*	4
		<b>15</b>

#### Second Year – Spring Semester

___ PHYS 2120	Physics II	4
___ MATH 2010	Linear Algebra	3
___ Humanities/Fine Arts		3
___ MATH 2120	Differential Equations	3
		<b>13</b>

**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:

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