

UNIVERSITY OF MISSOURI-ST. LOUIS
AND
JEFFERSON COLLEGE

ASSOCIATE IN ARTS LEADING TO BACHELOR OF SCIENCE IN

PHYSICS

FIRST SEMESTER

JC

English 101 English Comp I(3)
Humanities (3)
Math 141 Precalculus (5)
Biology 102 Concepts of Biol (3)
COL 101 Intro to College (1)

Hours: (15)

UMSL Equiv.

Math 1030 & 1035

SECOND SEMESTER

JC

Math 180 Calculus I (5)
Social Science (3)
Physics 118 Intro to Physics (2)
PSC 102 US & Mo Govern (3)
English 102 English Comp II (3)

Hours: (16)

UMSL Equiv.

Math 1800

THIRD SEMESTER

JC

SPD 105 Oral Communication (3)
Social Science (3)
Physics 223 General Physics I (4)
Math 185 Calculus II (5)

Hours: (15)

UMSL Equiv.

*Physics 2111
Math 1900*

FOURTH SEMESTER

JC

Humanities (6)
History 103 or 104 (3)
Physics 224 General Physics II (4)
Math 201 Calculus III (5)

Hours: (18)

UMSL Equiv.

Physics 2112

FIFTH SEMESTER

UMSL

English 3100	Advanced Expository Writing (3)
Physics 1099	Windows on Physics (1)
Physics 3200	Surv of Theoretical Physics (3)
Math 2020	Differential Equations (3)
Chemistry 1111	Intro to Chemistry (5)
Physics 3231	Intro to Modern Physics (3)

Hours: (18)

SIXTH SEMESTER

UMSL

CS 1250	Intro to Computing (3)
Physics 3221	Mechanics (3)
Physics 3223	Electronics & Magnetism (3)
Math 2450	Elem Linear Algebra (3)
Chemistry 1121	Intro to Chemistry II (5)

Hours: (17)

SEVENTH SEMESTER

UMSL

Physics 4331	Intro to Quantum Mechanics (3)
Physics 4310	Modern Electronics (3)
Astro 1050 or 1051	Intro to Astronomy (3)
Physics/Astronomy	4000 Level Elective (3)
Math 4030 or 4230	Appl Math or Numerical Ana I(3)

Hours: (15)

EIGHTH SEMESTER

UMSL

Physics 4311	Advanced Labe (3)
Physics 4341	Thermal & Stat Physics (3)
Physics 4323	Modern Optics (3)
Physics/Astron	4000 Level Electives (6)
Math/ Comp Sci	3000 Level or Above (3)

Hours: (18)

DEGREE NOTES:

General Educ option courses should always be chosen based on your major and the transfer institution.

There are four physics options for the Bachelor of Science degree. They are General Physics, Astrophysics, Engineering Physics, and Medical Physics as well as an Optical Physics option which allows students to complete their BS in Physics and Doctor of Optometry in seven years. To discuss which option is best, the student should meet with the department Faculty Advisor Dr. Ta Pei Chen.

120 hours are required for the BS in Physics.

Students completing an Associate in Arts or and Associate in Applied Science degree from a Missouri community college that includes a CBHE approved general Education core will be allowed transfer credit of more than 64 hours only if the additional lower division credits are applicable to the baccalaureate degree or are prerequisites for upper division course in the major.

Maximum of 60 hours may transfer without an AA

Please seek advisement from your JC Academic Advisor for assurance of AA completion

CONTACT INFORMATION:

Note: It is important to contact the UM-St. Louis Transfer Coordinator each semester.
JC- Susan Bateman, UM-St. Louis Transfer Coordinator, 636-922-8670

For additional information, contact Ta Pai Cheng in the UM- St Louis Physics Department, 503J Benton Hall 314-516-5931 or tpcheng@umsl.edu.