OFFICE OF INSTRUCTION

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Catalog Rights page 52 has been updated. It now reads:

Catalog Rights

City College of San Francisco issues a new catalog yearly. The courses required for a spec
may change from one catalog to the next and often change during a student's tenure. For t
degree or certificate requirements based on catalog rights, students may elect to meet the

The catalog which was in effect at the time the student began credit coursework at City Co

1. The catalog which was in effect at the time the student began credit coursework at
   Francisco, or

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of either IGETC for STEM or CSU GE for STEM and the units for the major as specified below. Each course in the major must be completed with a grade of “C” (or “P”) or better. The IGETC for STEM and CSU GE for STEM options permit students completing the AS-T in Biology to follow the IGETC or CSU GE curriculum but delay one Arts or Humanities course and one Social or Behavioral Science course until after transfer. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 semesters. Completion time will vary based on student preparation and number of units completed per semester.

Courses Required for the AS-T in Biology

Course	**Units**
Required Biology	
BIO 100A General Biology	5.0
BIO 100B General Biology	5.0
Required Chemistry	
CHEM 101A General College Chemistry	6.0
CHEM 101B General College Chemistry	5.0
Choose one of the following Calculus courses	
MATH 100A Short Calculus I	3.0
MATH 110A Calculus I	5.0
Choose one of the following Physics options	
OPTION 1	
PHYC 2A Introductory Physics I	3.0
PHYC 2AL Introductory Physics Laboratory I	1.0
PHYC 2B Introductory Physics II	3.0
PHYC 2BL Introductory Physics Laboratory II	1.0
OPTION 2	
PHYC 4A Classical Mechanics for Scientists and Engineers	3.0
PHYC 4AL Mechanics Laboratory for Scientists and Engineers	1.0
PHYC 4B Electromagnetism for Scientists and Engineers	3.0

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Achievement in Security for Web App Development

Course	**Units Required**
CNIT 131 Internet Basics and Beginning HTML	3.0
or CNIT 131H Introduction to HTML and CSS	1.0
CNIT 120 Network Security	3.0
CNIT 132 Intermediate HTML and CSS	3.0

HUMANITIES: CHOOSE AT LEAST ONE OF THE FOLLOWING COURSES:

AFAM 30 African American Consciousness .....

CMST 8 Rhetoric of Popular Culture 3.0
CMST 50 Rhetoric of Cannabis

CS 110A Introduction to Programming and Computer Science 4.0
PHYC 4A Classical Mechanics for Scientists and Engineers 3.0
and PHYC 4AL Mechanics Laboratory for Scientists and Engineers 1.0
OPTION 2
MATH 130 Linear Algebra and Differential Equations 5.0
Choose one course or course combination from the following
MATH 115 Discrete Mathematics 3.0
CS 110A Introduction to Programming and Computer Science 4.0
PHYC 4A Classical Mechanics for Scientists and Engineers 3.0
and PHYC 4AL Mechanics Laboratory for Scientists and Engineers 1.0
Total:

SOCIAL SCIENCES

Associate in Arts in Philosophy for Transfer (AA-T) - REVISED

Philosophy is the study of the most fundamental questions of life, reality, knowledge, and value. Through the study of philosophy, students are trained in the skills of conceptual analysis and argument comprehension, construction, and evaluation. It provides an intensive introduction to the science of logic, with emphasis on the concept of proof and symbolic systems for calculating truth-value relationships. The philosophy major will also introduce students to philosophical theories in the tradition from its ancient beginnings to its contemporary developments. The AA-T in Philosophy offers students a comprehensive lower division program in philosophy. The AA-T prepares students who wish to transfer and pursue a baccalaureate degree in Philosophy, particularly at California State University and University of California campuses.

Learning Outcomes

Upon completion of this program, students will be able to:

- x Analyze major theories of perennial influence in the main areas of philosophy, metaphysics, epistemology, and value theory.
- x Analyze important philosophical issues and concepts, and evaluate alternative views with respect to them.
- x Apply the principles of logical reasoning, both deductive and inductive.
- x Construct fluent philosophical arguments.
- x Apply critical reasoning skills to identify, evaluate, and respond to arguments.

Students who wish to earn the Associate in Arts for Transfer (AA-T) in Philosophy must complete 60 CSU transferable units with at least a 2.0 grade point average. This must include the units required for full completion of the IGETC or CSU GE curriculum and the units for the major as specified below. Each course in the major must be completed with a grade of “C” (or “P”) or better. Courses used to meet the major requirement may also be used to meet IGETC or CSU GE requirements.

The minimum time for completion is 4 seme0.6 (t)3.5 (t)3.5 (t)3.5 (t)3.5 cimucismod2r45 tmhe wiphilevry aied od2r45 ustuente