

PASADENA CITY COLLEGE  
CURRICULUM AND INSTRUCTION COMMITTEE  
MINUTES OF MEETING  
THURSDAY, NOVEMBER 15, 2018

CALLED TO ORDER: 1:27 p.m.

CO-CHAIRPERSONS: Sharon Bober  
Tamara Knott-Silva

The following Curriculum and Instruction Committee members were present:

FACULTY CHAIRPERSONS

Sharon Bober  
Tamara Knott-Silva

INSTRUCTIONAL UNITS

Kimberly Shediak, Business & Computer Technology  
Jeff Hupp, Counseling and Career Services  
Wendy Lucko, Engineering & Technology  
Sebrenia Law, Health Sciences  
Lindsey Ruiz, Languages  
Mary Wahl, Library  
Richard Abdelkerim, Mathematics and Computer Science  
John Hanley, Natural Sciences  
Henry Shin, Performing & Communication Arts  
Andrea Murray, Social Sciences  
Masood Kamandy, Visual Arts and Media Studies

DIVISION DEANS

Joseph Futtner  
Sonia Wurst  
Natalie Russell  
Carrie Starbird

STUDENTS

Andrew Mendoza, ASB Representative

MEMBERS EX-OFFICIO

Sharis Amirian, Articulation Officer

VISITORS

Seung Yang  
Charlene Potter  
Mariella Baldo  
Allan Axibal-Cordero  
Linda Hintzman

*In accordance with the Ralph M. Brown Act and SB 751, the minutes of the Curriculum and Instruction Committee of Pasadena City College record the votes of all committee members as follows: (1) Members not present are presumed not to have voted; (2) the names of members of minority or abstaining votes are recorded; (3) all other members are presumed to have voted in the majority.*

I. WELCOME

Self-introductions were made.

II. PUBLIC COMMENT

Charlene Potter of the Languages Department spoke on the deletion of LING 010 from the Speech-Language Pathology Assistant Program.

III. APPROVAL OF MINUTES

Meeting Minutes for November 8, 2018.

ON MOTION by Richard Abdelkerim and seconded by John Hanley, the committee voted to approve the minutes of meeting 12.

IV. COMMITTEE DISCUSSION

ON MOTION by Richard Abdelkerim and seconded by Masood Kamandy, the committee voted unanimously to approve the modifications of SPCH 001 and 001H.

ON MOTION by Masood Kamandy and seconded by Kimberley Shediak, the committee voted unanimously to approve the addition of Distance Education to SPCH 001.

ON MOTION by Richard Abdelkerim and seconded by Sonia Wurst, the committee voted unanimously to approve the modification of the AA in Speech Communication.

ON MOTION by Wendy Lucko and seconded by Andrew Mendoza, the committee voted unanimously to approve the modification of the local AA/AS General Education requirements (addition of SPCH 001H).

ON MOTION by Lindsey Ruiz and seconded by John Hanley, the committee voted unanimously to approve the modifications of WRKP 2102 and WRKP 2013.

ON MOTION by Masood Kamandy and seconded by Lindsey Ruiz, the committee voted unanimously to approve the modification of WORKPLACE READINESS Certificate of Completion.

ON MOTION by Masood Kamandy and seconded by John Hanley, the committee voted to unanimously approve the modifications of CIS 016, 031, 036, and 065.

ON MOTION by Sonia Wurst and seconded by Kimberley Shediak, the committee voted unanimously to approve the modifications of the prerequisites to CIS 016, 031, 036, and 065.

ON MOTION by Masood Kamandy and seconded by Sonia Wurst, the committee voted unanimously to approve the modification of the COMPUTER INFORMATION SYSTEMS – PROGRAMMINGAS/Certificate of Achievement.

ON MOTION by Jeff Hupp and seconded by Masood Kamandy, the committee voted unanimously to approve the modification of the COMPUTER INFORMATION SYSTEMS – WEB DEVELOPMENT AS/Certificate of Achievement.

ON MOTION by Joseph Futtner and seconded by Jeff Hupp, the committee voted unanimously to approve the modification of DANC 021B and 025.

ON MOTION by Andrea Murray and seconded by Sebrenia Law, the committee voted unanimously to approve the modifications of CHDV 016 and 017.

ON MOTION by Richard Abdelkerim and seconded by Masood Kamandy, the committee voted unanimously to approve the modification of the COMPUTER INFORMATION SYSTEMS – CYBERSECURITY AS/Certificate of Achievement (formerly known as Computer Information Systems – IT Technician).

ON MOTION by Richard Abdelkerim and seconded by Masood Kamandy, the committee voted unanimously to approve the addition of MATH 103.

ON MOTION by Richard Abdelkerim and seconded by Lindsey Ruiz, the committee voted unanimously to approve the addition of the corequisite to MATH 103.

ON MOTION by Lindsey Ruiz and seconded by Masood Kamandy, the committee voted unanimously to approve the addition of STAT 150.

ON MOTION by Lindsey Ruiz and seconded by Andrew Mendoza, the committee voted unanimously to approve the addition of the corequisite to STAT 150.

ON MOTION by Masood Kamandy and seconded by Richard Abdelkerim, the committee voted unanimously to approve the modification of BUS 170.

ON MOTION by Wendy Lucko and seconded by Richard Abdelkerim, the committee voted unanimously to approve the modification of the ADMINISTRATION OF JUSTICE AS/Certificate of Achievement.

ON MOTION by Kimberley Shediak and seconded by Jeff Hupp, the committee voted unanimously to approve the deletion of the CAREER READINESS Occupational Skills Certificate.

ON MOTION by Wendy Lucko and seconded by Richard Abdelkerim, the committee voted unanimously to approve the modification to the CAD MODELING/ANIMATION – ARCHITECTURE/ENGINEERING/ CONSTRUCTION Occupational Skills Certificate.

ON MOTION BY Masood Kamandy and seconded by Lindsey Ruiz, the committee voted unanimously to approve the modifications to CHIN 002A, CHIN 003, and FLNG 020 (as amended).

ON MOTION by Wendy Lucko and seconded by Masood Kamandy, the committee voted unanimously to approve the addition of HIST 007AH and 007BH.

ON MOTION by Andrea Murray and seconded by Jeff Hupp, the committee voted unanimously to approve the modification to HIST 025B.

ON MOTION by Jeff Hupp and seconded by Masood Kamandy, the committee voted unanimously to approve the modification to SOC 024.

ON MOTION by Richard Abdelkerim and seconded by Masood Kamandy, the committee voted unanimously to approve the modification to STAT 018.

ON MOTION by Masood Kamandy and seconded Andrea Murray, the committee voted unanimously to approve the modification of the prerequisite to STAT 018.

ON MOTION by Masood Kamandy and seconded by John Hanley, the committee voted unanimously to approve the modifications to ART 031, 052A, and 052B.

ON MOTION by Richard Abdelkerim and seconded by Masood Kamandy, the committee voted unanimously to approve the additions to DMA 034, 050, 068, 070, 080A, 080B, and 092.

#### INFORMATION ITEMS

CHDV 016 Renewal

CHDV 017 Renewal

Extend DE for six years, expires Summer 2024.

Discussion on MUSP 007 was deferred to November 29.

The committee discussed the unit increases of the proposed MUSP courses and also discussed proposed courses that overlap or are nearly identical to existing courses.

There was discussion on just what defines a lower/upper division course.

The chairs asked the committee its availability for an extra meeting on a Tuesday.

AP 4100: Wording about autoawarding degrees has not been included. Further discussion of AP 4100 will be moved to Spring.

V. ANNOUNCEMENTS

None.

VI. ADJOURNMENT

ON MOTION by Richard Abdelkerim and seconded by Jeff Hupp, the meeting adjourned at 4:06 p.m.

## ADDENDUM

### BUSINESS AND COMPUTER TECHNOLOGY

MODIFICATION – Units (1 to 3), addition of enrollment limitation – Effective Summer 2019  
BUS 170 WORK EXPERIENCE INTERNSHIP

3 units

Enrollment Limitations: 3 units in Business, Business Information Technology or Accounting AND Permission of the Dean.

Supervised work experience in a professional organization to assist in employment transition. Analysis of professional activities, behavior style and collaborative team dynamics. Requires 60 hours of non-paid work or 75 hours of paid work for one semester unit. Total of 60 to 225 hours of work experience. Grade Mode: L, A, P

Rationale: The current BUS 170 was specifically designed for the Hospitality certificate. However, this certificate no longer requires this course. The only programs that list BUS 170 are the Certified Bookkeeper certificate (Accounting) and the Career Readiness certificate (CTE). The CTE certificate appears to be dormant; the required courses are no longer offered. The long list of prerequisites were related to these certificates which are no longer applicable. This proposal also changes the units from 3 to a range of 1 to 3 to make the hour requirement more workable.

MODIFICATION – SLOs, SPOs, MOIs, MOEs, assignments, catalog description, prereq (add “or equivalent”), NCN, text – Effective Summer 2019  
CIS 016 JAVA PROGRAMMING

3 units

Prerequisites: CIS 012 or equivalent.

Application development using Java programming language. Coverage of object-oriented programming principles and techniques. Topics include Java basics, control structures, arrays, classes, methods, overloading, encapsulation, inheritance, polymorphism, collections, Lambda expressions, exceptions, Java I/O, Java API, and database applications. Preparation for the Oracle Certified Associate (OCA) –Java SE Programmer and Oracle Certified Professional (OCP) – Java SE Programmer exams. Total of 36 hours lecture and 54 hours laboratory. Transfer Credit: CSU; UC Grade Mode: L

Rationale: To align this course with industry certifications; Oracle Certified Associate (OCA) – Java SE Programmer and Oracle Certified Professional (OCP) – Java SE Programmer. To update SLOs, SPOs, MOIs, MOEs, assignments, catalog description, prerequisite, certificate, NCN, grading option, textbook, and Form B.

MODIFICATION – SLOs, SPOs, CCOs, MOIs, MOEs, assignment, prereq (add “or equivalent”), text – Effective Summer 2019

CIS 031 INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS

3 units

Prerequisite: CIS 011 or equivalent.

Introduction to concepts in data and information management centered around the core skills of identifying organizational information requirements, conceptual data modeling techniques, conversion

of conceptual data models into relational data models, verification of structural characteristics with normalization techniques, and implementation of a relational database using an industrial-strength database management system. Overview of data quality and data security tasks, database application development, and data and information management technologies that provide decision support capabilities under the broad business intelligence umbrella. Total of 36 hours lecture and 54 hours laboratory.

Transfer Credit: CSU; UC credit under review.

Grade Mode: L

Rationale: To update SLOs, SPOs, CCOs, MOIs, MOEs, assignments, prerequisite (add "or equivalent"), certificate, textbook, and Form B. Request for C-ID ITIS 180.

MODIFICATION – Title, SLOs, SPOs, MOIs, MOEs, assignments, catalog description, prereq (add CIS 012 or equivalent; delete CIS 010), recommended preparation (delete), NCN – Effective Summer 2019

### CIS 036 VISUAL BASIC .NET PROGRAMMING

3 units

Prerequisite: CIS 012 or equivalent.

Application development using Visual Basic .NET programming language. Coverage of object-oriented programming principles and techniques. Topics include Visual Basic .NET basics, control structures, arrays, classes and objects, methods, overloading, encapsulation, inheritance, polymorphism, interfaces, generics, delegates, exceptions, file processing, Windows Forms, web applications, ADO.NET, and components. Total of 36 hours lecture and 54 hours laboratory.

Transfer Credit: CSU; UC

Grade Mode: L

Rationale: To update title, SLOs, SPOs, MOIs, MOEs, assignments, catalog description, prerequisite (added CIS012 or equivalent; removed CIS 010), removed recommended preparation (CIS 012), certificate, NCN, textbook, and Form B.

MODIFICATION – SLOs, SPOs, CCOs, MOIs, MOEs, assignment, prereq (add “or equivalent”), text – Effective Summer 2019

### CIS 065 COMPUTER FORENSICS FUNDAMENTALS

3 units

Prerequisites: CIS 061 or equivalent.

Methods used to properly conduct a computer forensics investigation based on objectives of the International Association of Computer Investigative Specialists (IACIS) certification. Topics covered include an overview of computer forensics as a profession, the computer investigation process, ethics, operating systems boot processes and disk structures, data acquisition and analysis; technical writing, and computer forensics tools. Total of 36 hours lecture and 54 hours laboratory.

Transfer Credit: CSU; UC credit under review.

Grade Mode: L

Rationale: To update SLOs, SPOs, CCOs, MOIs, MOEs, assignments, prerequisites (add "or equivalent"), certificates, textbook, and Form B.

MODIFICATION – Addition of SPCH 001H, ENGL 001AH – Effective Summer 2019

ADMINISTRATION OF JUSTICE – AS/Certificate of Achievement

37 units

The curriculum prepares students for entry-level positions as police officers, police reserve officers, police assistants and community service officers in police and sheriffs departments and for positions in private security, as well as preparation for careers in probation, parole and federal law enforcement agencies.

Emphasis is on critical thinking, oral communication skills and writing skills essential to today's law enforcement employees. Students are kept informed of changes in law enforcement such as community policing, laws of arrest, search and seizure and updates to the state penal code. Role playing and Moot Court participation are included to enhance oral communication skills and preparation of written reports. Training is also provided in the area of crime analysis and use of computer technology in law enforcement.

A Certificate of Achievement is awarded upon completion of all required courses with a grade of C or better.

Requirements for the Certificate of Achievement (37 units):

Semester I

AJ 010 – Introduction to the Administration of Justice (3)

AJ 012 – Concepts of Criminal Law (3)

ENGL 100 – Reading and Writing Skills (4)

or ENGL 001A – Reading and Composition (4)

or ENGL 001AH – Honors Reading and Composition (4)

Semester II

AJ 014 – Legal Aspects of Evidence (3)

AJ 016 – Principles and Procedures of the Justice System (3)

KINA 037 – Police-Fire Agility Training (1)

AJ 185 – Homeland Security (3)

Semester III

AJ 018 – Community Relations (3)

AJ 019 – Principles of Investigation (3)

SPCH 001 – Fundamentals of Speech (3)

or SPCH 001H – Honors Fundamentals Of Speech (3)

or SPCH 010 – Interpersonal Communication (3)

Semester IV

AJ 022 – Concepts of Enforcement Services (3)

AJ 130 – Firearms (1)

AJ 190 – Introduction to Forensics (3)

AJ 128 – Use of Force (1)



### Recommended Electives

AJ 122 – Field Practice in Administration of Justice (2)

FIRE 110 – Introduction to Fire Technology (3)

Rationale: SPCH001H was added as an option for SPCH001, and ENGL 001AH was added as an option to ENGL 001A.

MODIFICATION – Remove ENGL 100 from electives, catalog description, SLOs, electives – Effective Summer 2019

### COMPUTER INFORMATION SYSTEMS - PROGRAMMING – AS/Certificate of Achievement 18 – 19 units

This Programming curriculum prepares students with necessary skills to seek entry-level employment in programming. Instruction includes development, testing, and maintenance of applications using programming languages including and not limited to Python, C++, Java, and Visual Basic .NET. Upon completion of coursework, students will have the foundation needed to pursue industry certifications including and not limited to Python institute's Certified Associate in Python Programming (PCAP), C++ Institute's C++ Certified Associate Programmer (CPA) and C++ Certified Professional Programmer (CPP), Oracle Certified Associate (OCA) – Java SE Programmer, and Oracle Certified Professional (OCP) – Java SE Programmer.

A Certificate of Achievement is awarded upon completion of all required courses with a grade of C or better.

### Requirements for the Certificate of Achievement (18-19) units:

CIS 012 - Introduction to Programming Concepts and Methodologies Using Python (3)

CIS 014 – C++ Programming (3)

CIS 016 – Java Programming (3)

CIS 036 – Visual Basic .Net Programming (3)

### Required Electives (Select 2 courses)

CIS 038 – Advanced Visual Basic (3)

CIS 192 – Introduction to Web Development (3)

CIS 193 – Web Development Using Javascript (3)

CIS 197 – Web Development Using PHP and MYSQL (3)

CIS 199 – Web Development Using Ruby On Rails (3)

CIS 031 – Introduction to Database Management Systems (3)

CIS 062 – Introduction to Systems Analysis (3)

CIS 010 – Introduction to Information Systems (3)

CIS 011 – Information and Communication Technology Essentials (4)

Rationale: To remove ENGL 100 from recommended electives, which will not be offered due to AB705.

To update description, SLOs, and required electives.

MODIFICATION – Remove ENGL 100, catalog description, SLOs, electives – Effective Summer 2019

COMPUTER INFORMATION SYSTEMS - WEB DEVELOPMENT – AS/Certificate of Achievement

18 -19 units

This Web Development curriculum prepares students with necessary skills to seek entry-level employment in web applications development. Instruction includes development, testing, deployment, and maintenance of secure web applications using programming languages including and not limited to HTML, CSS, JavaScript, PHP, MySQL, Ruby on Rails, and Python.

A Certificate of Achievement is awarded upon completion of all required courses with a grade of C or better.

Requirements for the Certificate of Achievement (18-19 units):

CIS 012 – Introduction to Programming Concepts and Methodologies Using Python (3)

CIS 192 – Introduction to Web Development (3)

CIS 193 – Web Development Using Javascript (3)

CIS 197 – Web Development Using PHP and MYSQL (3)

Required Electives (Select 2 Courses)

CIS 199 – Web Development Using Ruby on Rails (3)

or CIS 014 – C++ Programming (3)

or CIS 016 – Java Programming (3)

or CIS 031 – Introduction to Database Management Systems (3)

or CIS 036 – Visual Basic .Net Programming (3)

or CIS 038 – Advanced Visual Basic (3)

or CIS 062 – Introduction to Systems Analysis (3)

or CIS 010 – Introduction to Information Systems (3)

or CIS 011 – Information and Communication Technology Essentials (4)

Rationale: To remove ENGL 100 from recommended electives, which will not be offered due to AB705. To update description, SLOs, and required electives.

DELETIONS – Effective Summer 2019

CTE CAREER READINESS – Occupational Skills Certificate

6 units

Rationale: This program is dormant. It was developed by Solomon Davila (no longer at PCC), but never implemented.

## ENGINEERING & TECHNOLOGY

MODIFICATION – Units (from 13 to 12) – Effective Summer 2019

CAD MODELING/ANIMATION-ARCHITECTURE/ENGINEERING/CONSTRUCTION –  
Occupational Skills Certificate  
12 units

The curriculum prepares students to apply CAD systems to model industry specific architectural and engineering projects. Job functions include creating models of engineering designs and structures, creating associative drawings to models, generating computerized visualizations of architectural models.

An Occupational Skills Certificate is awarded upon completion of all required courses with a grade of C or better.

Requirements for the Occupational Skills Certificate (12 units):

Semester I

DT 008A – Introduction to Digital Design and Fabrication (3)

Semester II

DT 017 – Building Construction Technical Graphics (3)

Semester III

DT 118 – A/E/C Modeling (3)

DT 114 – Building Information Modeling Design (BIM Design) (3)

Rationale: We are modifying our capstone course DT114 to 3 units from 4.

## LANGUAGES

MODIFICATION – Title, SLOs, SPOs, CCOs, MOIs, MOEs, assignments, text – Effective Summer 2019

CHIN 002A ACCELERATED ELEMENTARY CHINESE (MANDARIN)

5 units

Intensive training in oral and written Chinese. Designed for students who already have some degree of fluency in spoken Chinese, but have had little or no formal training in reading and writing of Chinese characters. Improvement of oral expression. Introduction to Chinese grammar essentials, readings of simple contemporary Chinese stories; oral and written composition. No credit if taken after CHIN 001 or 002. Total of 90 hours lecture.

Transfer Credit: CSU; UC credit limitations. See counselor.

Grade Mode: L, A, P

Rationale: 1. Revise the course title for clarification. 2. Modification of SLOs, SPOs, and CCOs. 3. Methods of Instruction, Methods of Evaluation, and Assignments were blank, and now they are filled in. 4. The textbook was more than 5 years old, but now it is current.

MODIFICATION – Title, SLOs, SPOs, CCOs, catalog description, MOIs, MOEs, assignment, texts – Effective Summer 2019

### CHIN 003 INTERMEDIATE CHINESE (MANDARIN) - LEVEL 1

5 units

Prerequisites: CHIN 002, or CHIN 002A, or two years of high school Chinese, or placement based on the foreign language assessment process.

Grammar; oral and written composition; reading of intermediate texts; Chinese customs and culture.

Total of 90 hours lecture.

Transfer Credit: CSU; UC

Grade Mode: L, A, P

Rationale: 1. The Foreign Languages courses were asked to be renamed in the course title, with a specification of "Level 1" for Chinese 3. 2. Modification of SLOs, SPOs, CCOs, and catalog description. 3. Methods of Instruction, Methods of Evaluation, and Assignments were blank, and now they are filled in. 4. The textbooks were more than 5 years old, but now they are current.

MODIFICATION – Effective Summer 2019

### FLNG 020 INDEPENDENT STUDY

1 unit

Prerequisites: Level 4 of a foreign language or permission of department chairperson.

Individual projects, such as readings in literature, theater, history, philosophy; written reports or analysis of films, videos. Total of 54 hours laboratory.

Transfer Credit: CSU; UC credit limitations. See counselor.

Grade Mode: L, A, P

Rationale: To change contact hours from 18 laboratory to 54 hours laboratory in this course. To update modes of teaching and evaluation.

## MATHEMATICS AND COMPUTER SCIENCE

ADDITION – Effective Summer 2019

### MATH 103 SUPPORT FOR COLLEGE ALGEBRA

½ unit

Corequisite: MATH 003.

Review of core prerequisite skills, competencies, and concepts for college algebra with an emphasis on critical thinking and problem solving. Intended for students who are concurrently enrolled in Math 003: College Algebra for STEM. Topics include learning strategies and mathematical knowledge necessary for successful completion of College Algebra for STEM. Total of 45 hours laboratory.

Grade Mode: P

Rationale: This course is being proposed as a co-requisite course for Math 003 in accordance with multiple measures placement as outlined in AB705, intended for students needing additional support to successfully complete Math 003. The purpose of this lab course is to provide study skills and just-in-time review of prerequisite knowledge and skills for college algebra.

ADDITION – Effective Summer 2019

**STAT 150 SUPPORT FOR ELEMENTARY STATISTICS**

½ unit

Corequisite: STAT 050.

Review of core prerequisite skills, competencies, and concepts for statistics with an emphasis on critical thinking and problem solving. Intended for students who are concurrently enrolled in STAT 050: Elementary Statistics. Topics include learning strategies and mathematical knowledge necessary for successful completion of Elementary Statistics. Total of 36 hours laboratory.

Grade Mode: P

Rationale: This course is being proposed as a co-requisite course for STAT 050 in accordance with multiple measures placement as outlined in AB705, intended for students needing additional support to successfully Complete STAT 050. The purpose of this lab course is to provide study skills and just-in-time review of prerequisite knowledge and skills for statistics.

## NONCREDIT

MODIFICATION – Title, SLOs, SPOs, CCOs, MOIs, MOEs, assignment, catalog description, contact hours (variable 18-72) – Effective Summer 2019

### WRKP 2102 WORKPLACE READINESS: CONTEXTUALIZED MATH SKILLS

Focus on developing the practical math skills required for students in a target industry, Career and Technical Education training program, pre-apprenticeship, or apprenticeship program to perform calculations and measurements. Total 18 to 72 hours of lecture.

Rationale: This course is being revised as part of the LA/OC Regional Consortium Strong Workforce program to develop the math skills required in a target industry, Career and Technical Education training program, pre-apprenticeship, or apprenticeship program. Changes were made to title, SLOs, SPOs, course content, methods of Instruction, methods of evaluation, changed to variable hours, assignments, and catalog description.

MODIFICATION – Title, SLOs, SPOs, CCOs, MOIs, MOEs, contact hours (variable 18-45), assignment, catalog description – Effective Summer 2019

### WRKP 2103 WORKPLACE READINESS: CAREER AND JOB SKILLS

Focus on preparing students to apply for or maintain a job in a career or technical field or enter a Career and Technical Education training program, pre-apprenticeship, or apprenticeship program. Total of 18 to 45 hours of lecture.

Grade Mode: P

Rationale: This course is being revised as part of the LA/OC Regional Consortium Strong Workforce program to develop the skills required to obtain and maintain a job in a target industry, Career and Technical Education training program, pre-apprenticeship, or apprenticeship program. Changes were made to title, SLOs, SPOs, course content, methods of Instruction, methods of evaluation, changed to variable hours, assignments, and catalog description.

MODIFICATION – Catalog description, courses, SLOs – Effective Summer 2019

### WORKSPACE READINESS – Certificate of Completion

The Workplace Readiness program enables students to develop the contextualized basic skills (in English and/or math) and the career skills required in a target industry, Career and Technical Education training program, pre-apprenticeship, or apprenticeship program. Students gain competence in effective oral and written English language communication skills, accurate analytical and computational mathematics abilities, and productive job search strategies.

A Certificate of Completion is awarded upon completion of all required courses.

### Required Courses

WRKP 2103 – Workplace Readiness: Career and Job Skills

WRKP 2101 – Workplace Readiness: Contextualized English Skills  
or WRKP 2102 – Workplace Readiness: Contextualized Math Skills

Rationale: This program will help students be successful in CTE areas or programs with high employment potential that provide entry-level to high level employment. In addition, it can provide

entry-level employment in the targeted industry. The following changes were made: Program description changed to provide a better detail on the program. Two courses are required instead of three. Program student learning Outcomes were aligned with course outcomes. Hours were changed to reflect changes of individual courses to variable hours.

## PERFORMING AND COMMUNICATION ARTS

ADDITION – Effective Summer 2019

### MUSP 007 HISTORY AND ANALYSIS OF POPULAR MUSIC

3 units

Prerequisite: MUSC 001A.

Comprehensive examination of the development of Western Popular music through listening, musical analysis, and the study of musical techniques. Survey of historical details, including cultural, intellectual, and social influences on musical trends and styles. For music majors, but open to all qualified students. Total of 54 hours lecture.

Transfer Credit: CSU; UC credit under review.

Grade Mode: L, A

Rationale: This course is designed as part of the core music curriculum of the newly proposed Popular Music degree. Akin to the MUSC 0007A that our classical music majors take, this course fills the role of an analytical history class for our Popular Music majors. It will cover a much broader set of styles than our GE History of Rock class and will also include elements of musical analysis that only music majors who have prerequisite music theory skills will be able to achieve.

MODIFICATION – SLOs, SPOs, CCOs, MOEs, MOIs, assignment, texts – Effective Summer 2019

### DANC 021B DANCE HISTORY: SPECTACLE AND PERFORMANCE ART

3 units

Survey of dance as performance and art form in varying cultural and historical contexts, including spectacle, theater and theatricals, entertainment, performance and concert art; dance as literature, criticism, theory and choreographic design; relationship to other art forms; study of prominent and influential choreographers, productions, performers and writers and collaborative projects with composers and artists. Total of 54 hours lecture.

Transfer Credit: CSU; UC

Grade Mode: L, A, P

Rationale: Revision of SLO's, SPO's, CCO's, Teaching Methods, Evaluation, Assignments, Textbook.

MODIFICATION – SLOs, SPOs, CCOs, MOIs, MOEs, assignment, catalog description, contact hours, text – Effective Summer 2019

### DANC 025 MOVEMENT FOR CHILD DEVELOPMENT

2 units

Survey of movement teaching techniques, activities and experiences that promote child growth and development from infancy through age eight. Focus is on development of the whole child, enhancing the physical, cognitive and social/emotional domains, through creative, non-competitive movement activities. Child developmental theory, principles and movement practices are engaged. Total of 27 hours lecture and 27 hours laboratory.

Transfer Credit: CSU  
Grade Mode: L, A

Rationale: Course review, modification of SLOs, alignment with SPOs, update Course Content Outline, Methods of Instruction, Methods of Evaluation of Student Performance, Assignments, Catalog Description modified (including update/increase of hours of laboratory changing to 27 hours lecture and 27 hours lab), Textbook.

MODIFICATION – SLOs, SPOs, texts, add Distance Education – Effective Summer 2019  
SPCH 001 FUNDAMENTALS OF SPEECH

3 units

Principles and practices of public speaking, speech composition, organization, audience analysis and listening skills. Recommended proficiency in spoken English. No credit if taken after SPCH 001H. Total of 54 hours lecture.

Transfer Credit: CSU; UC. C-ID: COMM 110  
Grade Mode: L

Rationale: This proposal is to combine changes made to SLOs, SPOs, and textbooks. It also includes a form D addition to turn Speech 001 into a DE course.

MODIFICATION – CCOs, assignment, catalog description – Effective Summer 2019  
SPCH 001H HONORS FUNDAMENTALS OF SPEECH

3 units

Enrollment Limitation: Acceptance to the Honors Program.

Principles and practices of public speaking, speech composition, organization, audience analysis and listening skills. This enriched course is designed for the Honors Program requiring students to use stronger analytical skills to research and deliver speeches of more advanced topics.

Recommended proficiency in spoken English. No credit if taken after SPCH 001. Total of 54 hours lecture.

Transfer Credit: CSU; UC credit under review. \*C-ID: COMM 110

Rationale: Requesting to put this on the local GE pattern. Areas being updated to show differentiation of rigor between SPCH 001 and SPCH 001H: 1. An extra section in the Course Content Outline called "Honors Advanced Topics" identifying subjects that are not covered in SPCH 001, but will be covered in SPCH 001H. 2. A significant differentiation in the assignments. SPCH 001 assignments and SPCH 001H assignments are listed to show their discrepancies. 3. Update catalog description to include: "This enriched course is designed for the Honors Program requiring students to use stronger analytical skills to research and deliver speeches of more advanced topics."

MODIFICATION – Addition of SPCH 001H – Effective Summer 2019  
AA IN SPEECH COMMUNICATION – Associate in Arts Degree

18 units

A degree in Speech Communication from Pasadena City College prepares students for upper division (advanced level) coursework and several entry level positions within the field. This area of emphasis is primarily intended to prepare students to transfer and earn a bachelor's degree in Speech



Communication or Communication Studies. Students develop verbal, nonverbal and interpersonal communication skills, apply critical thinking skills, and learn about human communication in multiple contexts. The Speech Communication major helps students to improve their relationship skills in both personal and professional life as well as prepares them for advancements in their careers.

PLEASE NOTE: The courses that universities and colleges require for transfer vary. When selecting courses for transfer purposes, students should consult with Counseling Services to determine the particular transfer requirements of specific transfer institutions.

All courses must be completed with a grade of C or better. All courses must be numbered 1-099.

Requirements for the major in Speech Communication (18 units minimum):

Students must complete all of the following:

Required courses:

SPCH 001 – Fundamentals of Speech (3)  
or SPCH 001H – Honors Fundamentals of Speech (3)  
SPCH 006 – Argumentation and Debate (3)  
SPCH 010 – Interpersonal Communication (3)

Addition courses:

Students must complete at least 9 additional units from the following courses:

SPCH 002 – Persuasion (3)  
SPCH 003 – Voice and Diction (3)  
SPCH 004 – Oral Interpretation (3)  
SPCH 005 – Forensics – Speech and Debate Team (3)  
SPCH 008 – Readers' Theater (3)  
SPCH 009 – Small Group Communication (3)  
SPCH 012 – Argumentation and Critical Thinking (3)  
SPCH 013 – Introduction to Speech Communication (3)  
SPCH 005A – Forensics Research and Preparation (Speech and Debate Team) (3)

Rationale: Adding SPCH 001H as an "OR" with SPCH 001

MODIFICATION – Effective Summer 2019

Requirements for the Associate in Arts Degree (AA)/Requirements for the Associate in Science Degree (AS)

Addition of SPCH 001H

Rationale: Adding SPCH 001H as an "OR" with SPCH 001

SOCIAL SCIENCES

ADDITION – Effective Summer 2019

**HIST 007AH HONORS UNITED STATES HISTORY TO 1876**

3 units

Enrollment Limitation: Acceptance into the Honors Program.

American history from its first peoples through the 1870s Reconstruction Era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Emphasis placed on comparing different ethnicities, women, and representative biographies. This enriched course is designed for the Honors Program allowing more student-directed discussion and more extensive writing assignments. No credit if taken after HIST 007A. Total of 54 hours lecture.

Transfer Credit: CSU; UC credit under review.

Grade Mode: L, A, P

Rationale: This course is being proposed as part of the Pasadena City College Honors Transfer Program. It is based on an existing course and must articulate as that course in addition to identifying the course as a distinct Honors version of that same course. Thus, the course being proposed is largely based on its existing non-Honors counterpart. By creating Honors courses designated with an “H,” transcripts will show an Honors course. While program completion is currently noted on student Honors sections of courses are not distinguished from their non-Honors counterparts, which is a preferable practice for such programs. Such notations are considered a “basic characteristic of a full developed Honors program” by the National Collegiate Honors Council. An additional benefit of distinguishing Honors courses is that enrollment in Honors classes is limited to students in the Honors program. The current practice is to identify a section of a given course as “Honors” and restrict student enrollment in the class schedule accordingly. Creating Honors courses where the enrollment restriction is written into the course itself will put PCC's enrollment practices more squarely within state policies and recommendations.

ADDITION – Effective Summer 2019

**HIST 007BH HONORS UNITED STATES HISTORY FROM 1876**

3 units

Enrollment Limitation: Acceptance into the Honors Program.

American history from 1876 to the present. Topics include industrialization, Progressivism, World Wars, Depression, the Cold War, the Civil Rights and Vietnam Era, and the 21st century. Emphasis placed on immigrant and racial groups, women, international relations, and contemporary topics. This enriched course is designed for the Honors Program allowing more student-directed discussion and more extensive writing assignments. No credit if taken after HIST 007B. Total of 54 hours lecture.

Transfer Credit: CSU; UC credit under review.

Grade Mode: L, A, P

Rationale: This course is being proposed as part of the Pasadena City College Honors Transfer Program. It is based on an existing course and must articulate as that course in addition to identifying the course as a distinct Honors version of that same course. Thus, the course being proposed is largely based on its existing non-Honors counterpart. By creating Honors courses designated with an “H,” transcripts will show an Honors course. While program completion is currently noted on student Honors sections of courses are not distinguished from their non-Honors counterparts, which is a preferable practice for such programs. Such notations are considered a “basic characteristic of a full

developed Honors program” by the National Collegiate Honors Council. An additional benefit of distinguishing Honors courses is that enrollment in Honors classes is limited to students in the Honors program. The current practice is to identify a section of a given course as “Honors” and restrict student enrollment in the class schedule accordingly. Creating Honors courses where the enrollment restriction is written into the course itself will put PCC's enrollment practices more squarely within state policies and recommendations. Apply for C-ID HIST 140.

MODIFICATION – SPOs, CCOs, catalog description, text, renew Distance Education – Effective Summer 2019

#### CHDV 016 HEALTH, SAFETY AND NUTRITION

3 units

Prerequisites: CHDV 010 and PSYC 021 or 021H.

Introduction to the laws, regulations, standards, policies and procedures and early childhood curriculum related to child health safety and nutrition. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development. CPR techniques, pediatric first aid; prevention and detection of child abuse. No credit if taken after CHDV 116. Total of 54 hours lecture.

Transfer Credit: CSU. \*C-ID: ECE 220

Grade Mode: L, A

Rationale: Update SPO's, CCO's, texts, catalog description.

MODIFICATION – SLOs, SPOs, CCOs, MOIs, MOEs, text, renew Distance Education – Effective Summer 2019

#### CHDV 017 TEACHING CHILDREN IN A DIVERSE SOCIETY

3 units

Development of social identities in diverse societies including theoretical and practical implications of oppression and privilege affecting young children, families, programs, classrooms, teaching, education and schooling. Exploration of various classroom strategies emphasizing culturally and linguistically appropriate anti-bias approaches supporting children in becoming competent members of a diverse society. Self-examination and reflection of one's own issues and understanding of educational principles in integrating social identity, stereotypes and bias, social and educational access, media, schooling, better informed teaching practices and/or program development. No credit if taken after CHDV 117. Total of 54 hours lecture.

Transfer Credit: CSU. \*C-ID: ECE 230

Grade Mode: L

Rationale: Update the textbook, CCOs and MOI and MOE; updated SLO's to align with SPO'S.

MODIFICATION – SLOs, SPOs, MOIs, MOEs, catalog description, text – Effective Summer 2019  
HIST 025B WOMEN IN AMERICAN SOCIETY

3 units

American women's history and experiences from pre-colonial era to the present. Emphasis on multicultural perspectives, social justice movements, and sociopolitical issues in the context of U.S. and global history. Total of 54 hours lecture.

Transfer Credit: CSU; UC  
Grade Mode: L, A, P

Rationale: Modify SLOs; align SPOs with SLOs; update MOI, MOE; update textbooks. Modification of catalog description.

MODIFICATION – SLOs, SPOs, MOIs, MOEs, CCOs, assignment – Effective Summer 2019

#### SOC 024 MARRIAGE AND THE FAMILY

3 units

The family as a social institution; social, economic, legal, psychological aspects of marriage and family life; patterns of courtship, marriage and family organization. Total of 54 hours lecture.

Transfer Credit: CSU; UC. \*C-ID: SOCI 130

Grade Mode: L, A, P

Rationale: Update curriculum and differentiate SLOs. Modification to SPOs, assignments, MOIs, MOEs, CCOs.

MODIFICATION – SLOs, SPOs, MOIs, MOEs, assignment, catalog description, contact hours (from 90 to 72), prereq (delete MATH 133B, 134B, 141)– Effective Summer 2019

#### STAT 018 STATISTICS FOR BEHAVIORAL AND SOCIAL SCIENCES

4 units

Prerequisite: MATH 131 or 150 or placement based on the statistics placement process.

(Social Sciences Division)

Data-analysis concepts and procedures used in the social sciences. Topics include measures of central tendency and dispersion; probability and sampling distributions, methods of evaluating hypotheses and testing inferential statistics (t-tests, chi-square, ANOVA, correlation and regression). Applications to the social sciences using calculators and spreadsheets. No credit if taken after STAT 015 or STAT 050 or STAT 050H. Total of 72 hours lecture.

Transfer Credit: CSU; UC credit limitations. See counselor. \*C-ID: SOCI 125

Grade Mode: L, A, P

Rationale: Change to hours of instruction (from 90 to 72). Change to SLOs. Changes to SPOs. Changes to CCOs. Changes to Methods of Instruction. Changes to Methods of Evaluation of Student Performance. Changes to Assignments. Changes to Catalog Description. Modification of Prereqs (remove MATH 133B, 134B, 141). Request for resubmission of C-ID SOCI 125 and application of C-ID Math 110.

### VISUAL ARTS AND MEDIA STUDIES

ADDITION – Effective Summer 2019

#### DMA 034 USER EXPERIENCE DESIGN (UX)

3 units

Focuses on the quality of experience a person has when interacting with a specific design. A UX Designer focuses on the needs and wants of the user, as well as ease-of-use, and designs for the best possible user experience. Covers the design process, documentation, and tools used within the UX field. Topics include

user research, information architecture, interaction design, prototyping, and usability testing. Following a design process, students will collaborate to research, critique, and design a project that includes prototyping and user-testing. No credit if taken after ART 063. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU; UC credit under review.

Grade Mode: L, A

Rationale: -Added audit. - Fixed lecture/lab hours to reflect that it is a studio course (also fixed catalog description to reflect this change). - New course number and catalog code. - Course formerly known as ART 063. Rationale of DMA subject code, new course number, and new course titles: - Increased visibility to students of Design and Digital Media courses. - A more holistic identity for a sequence of courses that leads to cutting edge careers in all of the Digital Media fields we currently teach: Graphic Design, Interaction Design, User Experience, Game Design/Development, Web Design/Development, Creative Coding and Animation. - A more easily understandable sequence of courses that are numbered logically. - Course names that are clear, concise and easy to understand.

ADDITION – Effective Summer 2019

DMA 050 WEB DESIGN & DEVELOPMENT

3 units

Covers design and creation of websites. Exploration of usability, interface, navigation, and information design as well as creation of dynamic content in websites. Use of HTML, CSS, CMS's, and PHP/MySQL to explore simple to complex interactive projects for the Web. Creation of a professional website designed in an interdisciplinary team environment. Emphasis on project management and conceptual skills that comprise well-designed websites; an interdisciplinary course. No credit if taken after ART 198 or ART 098. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU; UC credit under review.

Grade Mode: L, A

Rationale: - Changing course number and catalog code. - Adding audit. - Course formerly known as ART 198. Rationale of DMA subject code, new course number, and new course titles: - Increased visibility to students of Design and Digital Media courses. - A more holistic identity for a sequence of courses that leads to cutting edge careers in all of the Digital Media fields we currently teach: Graphic Design, Interaction Design, User Experience, Game Design/Development, Web Design/Development, Creative Coding and Animation. - A more easily understandable sequence of courses that are numbered logically. - Course names that are clear, concise and easy to understand.

ADDITION – Effective Summer 2019

DMA 068 PHYSICAL COMPUTING FOR ART & DESIGN

3 units

Explores the creative potentials in the field of physical computing for artists and designers. Explores innovative ways to create installations, interactive products, designs and sculptures that combine electronics, sensors and motors to generate unique experiences. Students will work individually and in teams to wireframe, prototype and produce interactive objects while learning the basic principles of electronics as they apply to art-making. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU; UC credit under review.

Grade Mode: L, A

Rationale: - Changed course number and catalog designation. - Removed prerequisite because of enrollment issues. - Added Audit. - Note: I didn't add the NO CREDIT IF statement, because while this course has been on the books, the prerequisite has prevented it from actually being able to ever run. - Course formerly known as ART 062. Rationale of DMA subject code, new course number, and new course titles: - Increased visibility to students of Design and Digital Media courses. - A more holistic identity for a sequence of courses that leads to cutting edge careers in all of the Digital Media fields we currently teach: Graphic Design, Interaction Design, User Experience, Game Design/Development, Web Design/Development, Creative Coding and Animation. - A more easily understandable sequence of courses that are numbered logically. - Course names that are clear, concise and easy to understand.

ADDITION – Effective Summer 2019

#### DMA 070 MOTION GRAPHICS

3 units

Exploration of experimental and new technological approaches to creating original 2D and 3D time-based visual imagery for use in design, fine arts, animation, and interactive media. Introduction to the integration of sound, graphics, video, and text. Exploration of motion design and dynamic storytelling to create movies, animation, and professional special effects for digital output. No credit if taken after ART 156 or ART 057. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU; UC credit under review.

Grade Mode: L, A

Rationale: -TOP Code changed to multimedia. -Added audit. - Course formerly known as ART 057. Rationale of DMA subject code, new course number, and new course titles: - Increased visibility to students of Design and Digital Media courses. - A more holistic identity for a sequence of courses that leads to cutting edge careers in all of the Digital Media fields we currently teach: Graphic Design, Interaction Design, User Experience, Game Design/Development, Web Design/Development, Creative Coding and Animation. - A more easily understandable sequence of courses that are numbered logically. - Course names that are clear, concise and easy to understand.

ADDITION – Effective Summer 2019

#### DMA 080A 3D MODELING & SCULPTING

3 units

Cover three-dimensional modeling, sculpting, rendering, 3D Printing using industry-standard tools and methods. Topics include modeling with polygons, modeling with NURBs surfaces, materials, textures, lighting, and rendering. Principles of digital sculpting and methods to optimize projects for 2D and 3D printing. No credit if taken after ART 155A or ART 085A. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU; UC credit under review.

Grade Mode: L, A

Rationale: - Change course number and catalog code to DMA. - Added audit. - Fixed small formatting errors for WebCMS. - TOP Code is Animation. - Course formerly known as ART 085A. Rationale of DMA subject code, new course number, and new course titles: - Increased visibility to students of Design and Digital Media courses. - A more holistic identity for a sequence of courses that leads to cutting edge careers in all of the Digital Media fields we currently teach: Graphic Design, Interaction Design, User Experience, Game Design/Development, Web Design/Development, Creative Coding and Animation. - A

more easily understandable sequence of courses that are numbered logically. - Course names that are clear, concise and easy to understand.

ADDITION – Effective Summer 2019

#### DMA 080B 3D ANIMATION & SIMULATIONS

3 units

Introduction to time-based three-dimensional design and dynamic simulations. Animation, motion graphics, and dynamic effects using industry-standard tools and methods. Topics include basic rigging, animation, camera motions, paint effects, procedural animation, and dynamic simulations. Methods for post-production and output to video. No credit if taken after ART 155B or ART 085B. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU; UC credit under review.

Grade Mode: L, A

Rationale: - TOP Code is Digital Media, per all DMA courses. - Added audit. - Course number and catalog code changed. - Small formatting changes for legibility. - Course formerly known as ART 085B. Rationale of DMA subject code, new course number, and new course titles: - Increased visibility to students of Design and Digital Media courses. - A more holistic identity for a sequence of courses that leads to cutting edge careers in all of the

Digital Media fields we currently teach: Graphic Design, Interaction Design, User Experience, Game Design/Development, Web Design/Development, Creative Coding and Animation. - A more easily understandable sequence of courses that are numbered logically. - Course names that are clear, concise and easy to understand

ADDITION – Effective Summer 2019

#### DMA 092 GAME DESIGN II: GAME ENGINES

3 units

Intermediate skills in video game design and development using a 2D and 3D game engine. Creation of projects in 2D, 3D and virtual reality. Utilization of a design sequence that involves brainstorming techniques, teamwork, game design documents, prototyping, and playtesting. Development of project management for an efficient and effective game design workflow. Topics include game rules, balance, complexity, randomness, narrative, player interaction, aesthetics, and world building. Includes basic scripting skills for game development. No credit if taken after ART 081. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU; UC credit under review.

Grade Mode: L, A

Rationale: - Remove Prerequisite. - Course number and catalog designation changed. - Course name changed for clarity. - Allowing audit. - Updated textbooks. - Course formerly known as ART 081. Rationale of DMA subject code, new course number, and new course titles: - Increased visibility to students of Design and Digital Media courses. - A more holistic identity for a sequence of courses that leads to cutting edge careers in all of the Digital Media fields we currently teach: Graphic Design, Interaction Design, UserExperience, Game Design/Development, Web Design/Development, Creative Coding and Animation. - A more easily understandable sequence of courses that are numbered logically. - Course names that are clear, concise and easy to understand.

MODIFICATION – SPOs, CCOs, MOEs, MOIs, assignment – Effective Summer 2019

**ART 031A COLOR AND COMPOSITION-TWO DIMENSIONAL DESIGN**

3 units

Introduction to the concepts, applications, and historical references related to two-dimensional art and composition, including the study of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Development of a visual vocabulary for creative expression through lecture presentations, studio projects, problem solving, and written assignments. Total of 36 hours lecture and 72 hours of laboratory.

Transfer Credit: CSU; UC. \*C-ID: ARTS 100

Grade Mode: L, A

Rationale: Modified proposal summary, SPOs, CCOs, methods of evaluation, methods of instruction, assignments, equipment needed and other materials and/or supplies. Changes to: SPO numbering, revisions to CCO, revisions to assignments, revisions to MOE.

MODIFICATION – Title, SLOs, SPOs, CCOs, assignment, MOIs, MOEs, catalog description, recommended preparation (add ART 031A) – Effective Summer 2019

**ART 052A INTRODUCTION TO ILLUSTRATION**

3 units

Prerequisite: ART 011A.

Recommended Preparation: ART 031A.

A study of the common techniques and media used in various illustration fields. Emphasis on problem solving by creating illustrations from specific themes. Projects will apply to the areas of print, entertainment, and galleries. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU

Grade Mode: L, A

Rationale: Modified proposal name, CCOs, SLOs, SPOs, assignments, facilities needed, methods of evaluation, methods of instruction, equipment needed, other materials and/or supplies. Modification of catalog description (removed "recommended ART 031A"). Changes to: SPO numbering, revisions to CCO, revisions to assignments.

MODIFICATION – SLOS, SPOs, CCOs, MOIs, assignment – Effective Summer 2019

**ART 052B ADVANCED ILLUSTRATION**

3 units

Prerequisite: ART 052A.

Recommended Preparation: ART 031A.

Refinement of media and techniques with an emphasis towards developing experimental uses. Emphasis on advanced problem solving by creating illustrations from abstract and personal themes. Projects will serve as portfolio pieces for specific illustration areas. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU

Grade Mode: L, A

Rationale: Modified proposal purpose summary, proposal name, methods of instruction, other materials and/or supplies, EMP number, assignments, CCOs, methods of evaluation and performance, equipment needed, and facilities needed. Revisions on SLOs, SPOs, CCOs, MOI, MOE, assignments.



