

PASADENA CITY COLLEGE  
CURRICULUM AND INSTRUCTION COMMITTEE  
MINUTES OF MEETING  
THURSDAY, NOVEMBER 14, 2019

**CALLED TO ORDER:** 1:24 p.m.

**CO-CHAIRPERSONS:** Sharon Bober

The following Curriculum and Instruction Committee members were present:

**FACULTY CHAIRPERSON**

Sharon Bober

**INSTRUCTIONAL UNITS**

Wendy Lucko, Business, Engineering & Technology  
Jeff Hupp, Counseling and Career Services  
Manuel Perea, English  
Sebrenia Law, Health Sciences  
Charlene Potter, Languages  
Walter Butler, Library  
Richard Abdelkerim, Mathematics and Computer Science  
John Hanley, Natural Sciences  
Rhonda Williams, Noncredit  
Henry Shin, Performing & Communication Arts  
Bakhtawar Bhadha, Social Sciences  
Daisuke Yamaguchi, Visual Arts & Media Studies

**DIVISION DEANS**

Julie Kiotas  
Lynora Rogacs  
Natalie Russell  
Carrie Starbird

**MEMBERS EX-OFFICIO**

Sharis Amirian, Articulation Officer  
Homa Nelson, Classified Senate  
Armando Duran, Counseling & Student Success Services  
Terry Giugni, Assistant Superintendent/VP, Instruction

**VISITORS**

Martha House  
Brian Monacelli  
Jared Ashcroft

*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.*

Maria Fortuna Dean  
Brennan Wallace  
Mariella Baldo  
Nathan McIntire  
Tanysha Laney

## **I. WELCOME**

Self-introductions were made.

## **II. PUBLIC COMMENT**

Richard Abdelkerim read a letter from Jay Cho regarding course proposals for MATH 055 and MATH 055H.

## **III. APPROVAL OF MINUTES**

Meeting Minutes for November 7, 2019.

**ON MOTION** by Richard Abdelkerim and seconded by Walter Butler, the committee voted to approve the minutes from meeting 11. ABSTAIN = 3 (Terry Giugni, John Hanley, Homa Nelson)

## **IV. COMMITTEE DISCUSSION**

**ON MOTION** by Henry Shin and seconded by Richard Abdelkerim, the committee voted unanimously to approve the modification of MUSC 077A.

**ON MOTION** by Richard Abdelkerim and seconded by Bakhtawar Bhadha, the committee voted unanimously to approve the modification of MUSC 077B.

**ON MOTION** by Wendy Lucko and seconded by Richard Abdelkerim, the committee began discussion to approve the modification of BUSN 7306.

**ON MOTION** by John Hanley and seconded by Bakhtawar Bhadha, the committee momentarily tabled discussion of the modification of BUSN 7306 until data was gathered.

**MOTION TO APPROVE BUSN 7306 FAILED** – YES = 6 (Sebrenia Law, Charlene Potter, Richard Abdelkerim, Henry Shin, Manuel Perea, Daisuke Yamaguchi), NO = 11 (Armando Duran, Jeff Hupp, John Hanley, Carrie Starbird, Natalie Russell, Walter Butler, Bakhtawar Bhadha, Rhonda Williams, Lynora Rogacs, Julie Kiotas, Terry Giugni), ABSTAIN = 3 (Homa Nelson, Wendy Lucko, Sharis Amirian)

**ON MOTION** by Lynora Rogacs and seconded by John Hanley, the committee voted unanimously to table discussion and vote of the modification to JOUR 107A to no sooner than November 21, 2019.

**ON MOTION** by Richard Abdelkerim and seconded by Lynora Rogacs, the committee voted unanimously to table discussion and vote of the modification to JOUR 107B to no sooner than November 21, 2019.

**ON MOTION** by John Hanley and seconded by Natalie Russell, the committee voted unanimously to approve the addition of LASR 215.

**ON MOTION** by Natalie Russell and seconded by Julie Kiotas, the committee voted to approve the change to contact hours (45 to 36 lecture, 27 to 54 lab) of LASR 230. ABSTAIN = 1 (Charlene Potter)

**ON MOTION** by Wendy Lucko and seconded by Bakhtawar Bhadha, the committee voted unanimously to approve, as amended, the addition of LASR 230.

**ON MOTION** by Richard Abdelkerim and seconded by Natalie Russell, the committee voted unanimously to revote on and approve LASR 215 for the purpose of changing the contact hours (from 45 to 36 lecture, 27 to 54 lab).

**ON MOTION** by Julie Kiotas and seconded by Natalie Russell, the committee voted unanimously to approve the change to contact hours (63 to 54 lecture, 27 to 54 lab) of LASR 245.

**ON MOTION** by John Hanley and seconded by Richard Abdelkerim, the committee voted unanimously to approve, as amended, the addition of LASR 245.

**ON MOTION** by Richard Abdelkerim and seconded by Julie Kiotas, the committee voted unanimously to approve the change to contact hours (45 to 36 lecture, 27 to 54 lab) of LASR 260.

**ON MOTION** by Richard Abdelkerim and seconded by Julie Kiotas, the committee voted unanimously to approve, as amended, the addition of LASR 260.

**ON MOTION** by Wendy Lucko and seconded by Richard Abdelkerim, the committee voted unanimously to approve the addition of Distance Education to LASR 215, LASR 230 LASR 245, and LASR 260.

**ON MOTION** by Lynora Rogacs and seconded by Richard Abdelkerim, the committee voted unanimously to approve the addition of LASER TECHNOLOGY Certificate of Achievement.

**ON MOTION** by Richard Abdelkerim and seconded by John Hanley, the committee voted to take a 5-minute break.

**ON MOTION** by Richard Abdelkerim and seconded by Lynora Rogacs, the committee voted unanimously to approve the modification of GEOG 011. (Terry Giugni and Homa Nelson were not present for this vote.)

**ON MOTION** by Jeff Hupp and seconded by Walter Butler, the committee voted unanimously to approve the modification of AJ 014. (Terry Giugni and Homa Nelson were not present for this vote.)

**ON MOTION** by Jeff Hupp and seconded by John Hanley, the committee voted unanimously to approve the addition of Distance Education to AJ 014. (Terry Giugni and Homa Nelson were not present for this vote.)

**ON MOTION** by Richard Abdelkerim and seconded by Wendy Lucko, the committee voted unanimously to approve the modification of TECH 107A. (Terry Giugni and Homa Nelson were not present for this vote.)

**ON MOTION** by Richard Abdelkerim and seconded by John Hanley, the committee voted unanimously to approve the modification of ENGL 020. (Terry Giugni and Homa Nelson were not present for this vote.)

**ON MOTION** by Lynora Rogacs and seconded by Richard Abdelkerim, the committee voted unanimously to table discussion of ANTH 030G until the author could be contacted for clarification.

**ON MOTION** by Natalie Russell and seconded by Bakhtawar Bhadha, the committee voted unanimously to approve the modification of ANTH 030G. (Terry Giugni and Homa Nelson were not present for this vote.)

**ON MOTION** by Richard Abdelkerim and seconded by Bakhtawar Bhadha, the committee voted unanimously to approve the removal of the prerequisite to ANTH 030G. (Terry Giugni and Homa Nelson were not present for this vote.)

**ON MOTION** by Richard Abdelkerim and seconded by John Hanley, the committee began discussion to approve the modification of HUM 002.

**MOTION FAILED** – YES = 6 (Bakhtawar Bhadha, Walter Butler, Daisuke Yamaguchi, Jeff Hupp, Sharis Amirian, Manuel Perea), NO = 8 (Sebrenia Law, Charlene Potter, Wendy Lucko, Lynora Rogacs, Natalie Russell, Carrie Starbird, John Hanley, Rhonda Williams), ABSTAIN = 4 (Julie Kiotas, Richard Abdelkerim, Henry Shin, Armando Duran)

**ON MOTION** by Wendy Lucko and seconded by Jeff Hupp, the committee voted unanimously to table discussion and vote of the Distance Education update to HUM 002 to no sooner than November 21, 2019. (Terry Giugni and Homa Nelson were not present for this vote.)

**ON MOTION** by John Hanley and seconded by Lynora Rogacs, the committee voted unanimously to approve the modification of ART 020B. (Terry Giugni and Homa Nelson were not present for this vote.)

**ON MOTION** by Richard Abdelkerim and seconded by Armando Duran, the committee voted unanimously to approve the modifications of ART 033A, ART 033B, and ART 033C. (Terry Giugni and Homa Nelson were not present for this vote.)

**ON MOTION** by Richard Abdelkerim and seconded by Walter Butler, the committee voted unanimously to approve the modification of ART 118. (Terry Giugni and Homa Nelson were not present for this vote.)

The committee reviewed and discussed the following:

Technical Review discussion

competing proposals for MATH 055 and MATH 055H

revisiting votes – perhaps we should table votes when we hear from only one side/faculty and should consider information from other

**ON MOTION** by Richard Abdelkerim and seconded by John Hanley, the committee voted unanimously to postpone discussion of the Discipline Placement Policy until no sooner than November 21, 2019. (Terry Giugni and Homa Nelson were not present for this vote.)

V. ANNOUNCEMENTS

None.

VI. ADJOURNMENT

**ON MOTION** by John Hanley and seconded by Jeff Hupp, the meeting adjourned at 4:00 p.m.

## ADDENDUM

### BUSINESS AND ENGINEERING TECHNOLOGY

#### MODIFICATIONS

MODIFICATION – Addition of Distance Education, MOIs, MOEs – Effective Summer 2020

##### AJ 014 LEGAL ASPECTS OF EVIDENCE

3 units

Prerequisite: AJ 010 and AJ 012.

Origin, development, philosophy and constitutional basis of evidence; constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies; evidentiary requirements justifying the use of force or deadly weapons by peace officers. Total of 54 hours lecture.

Transfer Credit: CSU. \*C-ID: AJ 124

Grade Mode: L, A

Rationale: Adding a new Form D. Modification to assignments, MOIs, MOEs.

MODIFICATION – SPOs, MOIs, MOEs, assignments, texts – Effective Summer 2020

##### TECH 107A TECHNICAL CALCULATIONS

3 units

Review of basic arithmetic and geometric principles with application to solution of technical problems in the trades. Total of 54 hours lecture.

Grade Mode: L, A

Rationale:

This proposal is in response to the 2-year review cycle for CTE courses. The following changes have been made: SPOs, Methods of Instruction, Methods of Evaluation of Student Performance, Assignments, Book 1; Added required textbook (2018), other materials and/or supplies required of students: (removed). In addition, all remaining curriculum sections were reviewed and it was determined that no further changes were required at this time.

### ENGLISH

MODIFICATION – SPOs, MOIs, MOEs, assignments – Effective Summer 2020

##### ENGL 020 INDEPENDENT STUDY

1 unit

Prerequisite: ENGL 001A, 001AH, or 001AS.

Enrollment Limitation: Permission of division dean.

Individual projects; research techniques; written reports. Total of 54 hours laboratory.

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

Grade Mode: L, A, P

Rationale: This course was last approved on June 2, 2008. Minor changes to SPOs and Prerequisite section were made to change "department chairperson" to "Dean" or "division dean." Methods of Instruction, Methods of evaluation, and sample assignments also were added.

## NATURAL SCIENCES

### ADDITIONS – Effective Summer 2020

#### LASR 215 FUNDAMENTALS OF LIGHT AND LASERS

3 units

Fundamental properties of light, including its interaction with and generation from materials. Review of essential components of optical systems, including lenses, mirrors, prisms, windows, sources, detectors, optoelectronics, polarizers, fibers, and gratings. Construction of basic optical test setups from industrial grade components and systems in the laboratory. Hands-on experiences with industrial equipment and tools. Total of 36 hours lecture and 54 hours laboratory.

Grade Mode: L, A, P

Rationale: This proposal is for a new class (Fundamentals of Light) that will serve as a point of entry to a new Certificate in Laser Technology that we are developing. We would like this course to be available in fully face-to-face format, as well as in a hybrid format in which lectures are completed online. Enrollment is limited to 24 for laboratory safety. Add Form D.

#### LASR 230 INTRODUCTION TO OPTICAL DEVICES

3 units

Exploration of principal tools used when working with lasers and other light sources, cameras and sensors. Study of optical hardware and its constituent components; fundamentals of lasers to gain media, pump sources, and mirror cavities; investigation of camera components and essential chemistry. Hands-on experience with industrial hardware and tools. Total of 36 hours lecture and 54 hours laboratory.

Grade Mode: L, A, P

Rationale: This course is part of a series of 4 courses that is being proposed as part of a new Certificate of Achievement in Laser Technology that the Division of Natural Sciences is developing. This course will be offered fully F2F or as a hybrid (online lecture, F2F lab). Enrollment is limited to 24 for laboratory safety. Addition of form D.

#### LASR 245 QUALITY ASSURANCE OF PRECISION OPTICS

4 units

Overview of relevant industry and manufacturing specifications for precision optics. Introduction to quality assurance (QA) practices required to identify, inspect, and measure optical components. Hands-on experience with industrial materials and quality assurance tools. Total of 54 hours lecture and 54 hours laboratory.

Grade Mode: L, A, P

Rationale: This proposal is for a new class that will be part of a new Certificate of Achievement in Laser

Technology that we are developing. This course should be offered either fully face-to-face or in hybrid (online lecture, face-to-face laboratory) format. Enrollment is limited to 24 for laboratory safety. Addition of form D.

### LASR 260 METROLOGY OF OPTICAL SYSTEMS

3 units

Detailed review of the measurement techniques required to ensure that a fabricated assembly or system meets its procurement specifications. Design and application of optical metrology instrumentation such as interferometers and modulation transfer function measurement systems with emphasis on test applications required in optical engineering and manufacturing. Hands-on experience with industrial hardware and tools in the laboratory. Provides industrially relevant laboratory experience to measure precision optical components and optical systems. Focus on hands-on use of technical, industry-standard equipment. Total of 36 hours lecture and 54 hours laboratory.

Grade Mode: L, A, P

Rationale: This course is part of a 4-course series that will define a new Certificate of Achievement in Laser Technology. Enrollment is limited to 24 for laboratory safety. Addition of form D. If offered in hybrid format, the lecture will be online and the lab will be face-to-face.

### LASER TECHNOLOGY – AS / Certificate of Achievement

13 units

The Laser Technology Certificate of Achievement will teach students the hands-on skills necessary to thrive in corporate labs that use or manufacture optical systems. These courses have a strong emphasis on laboratory work, and hardware demonstrations. Students will gain the applied skills required to succeed in four-year engineering programs, graduate school, and industries, including medicine, remote sensing, manufacturing, telecommunications, and entertainment.

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

Required Units in the Major: 13

#### Required Courses

LASR 215 – Fundamentals of Light and Lasers (3)

LASR 230 – Introduction to Optical Devices (3)

LASR 245 – Quality Assurance of Precision Optics (4)

LASR 260 – Metrology of Optical Systems (3)



Rationale: We propose to offer a Laser Technology certificate of Achievement (13 units) that will be based on the industry-guided optical system curricula written by OP- TEC, the National Center for Optics and Photonics Education. Dr. Brian Monacelli, Co- Principal Investigator of the NSF grant will be leading hands-on, laboratory-driven classes utilizing state-of-the-art industrial equipment; he will collaborate with regional companies that manufacture advanced optical devices or use laser optics in engineering applications that range from laser surgery to homeland security. The Certificate program is designed to create a career path to employment via internships and industry-guided coursework. The first course, Introduction to Light and lasers, is on track to be taught at PCC NW in Fall 2020. This program will be housed in the Natural Sciences Division, which hosted a similar program until the mid-1990s.

Pasadena City College was approached in Spring 2019 about the possibility of adopting a mature Laser Technology program that is currently housed at Irvine Valley College. This program was fully equipped with state of the art laser and optical technology and supported in part by a 3 year NSF ATE grant to one of the instructors (Dr. Brian Monacelli). The proposal to move this program to PCC was initiated by advisory panel members seeking to move the program to a college with an active CTE program. Irvine Valley College had recently lost their full-time instructor in this area, and the primary instructor (Dr. Brian Monacelli) is based in the Pasadena area. Negotiations between the administrations of Irvine Valley College and Pasadena City College led to the current plan to move program equipment to PCC's NW site (at Muir High School) in Summer 2020. This move was supported by the California Community College Chancellors Office Sector Navigator for Advanced Manufacturing (Gurminder Sangha), who had worked with Monacelli in laying the groundwork for this move. As a result of these efforts, PCC will be acquiring the hardware components necessary for state-of-the art instruction in laser technology, along with the remaining one year of funds from a three-year National Science Foundation (NSF) Advanced Technological Education (ATE) award of \$190,000 to support instruction in this area. Housing this program at PCC NW will provide ready access to a potential pool of program participants (High school students). We will begin promoting this program in Spring 2020 with this outcome in mind.

## MODIFICATIONS

MODIFICATION – SPOs, MOIs, MOEs, assignments, catalog description, texts – Effective Summer 2020

### GEOG 011 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS

3 units

Exploration of geospatial technology including Geographic Information Systems (GIS) science and its applications to spatial data management. Learn how to identify and acquire GIS data, utilize vector and raster systems, use georeferencing, spatial analysis, modeling and Global Positioning Systems (GPS), and build map layouts with appropriate coordinate systems. Designed to complement other disciplines or as an entry level course into a geospatial program. Total of 36 hours lecture and 54 hours of laboratory.

Transfer Credit: CSU; UC. \*C-ID: GEOG 155

Grade Mode: L, A

Rationale: Modifications to SPOs, MOIs, MOEs, assignment, catalog description, texts.

## PERFORMING AND COMMUNICATION ARTS

MODIFICATION – SLOs, SPOs, CCOs, MOIs, MOEs, contact hours (from 36 lec to 27/27) – Effective Summer 2020

### MUSC 077A DICTION FOR SINGERS - ENGLISH AND ITALIAN

2 units

Basics of singing diction for English and Italian repertoire. International Phonetic Alphabet (IPA), transcription and decoding skills, speaking, and singing of texts from pieces assigned in course. Total of 27 hours lecture and 27 hours laboratory.

Transfer Credit: CSU; UC

Grade Mode: L, A

Rationale: Rebalancing lecture and lab to reflect the needed breakdown of instruction in these performance courses; 27 hours lecture 27 hours lab. Parallels revision approved by C&I in 2018 of courses 85A, 85B, 86A, 86B. Having now taught the diction classes for four semesters, it is clear that there is a necessary lab component to the instruction of this class: the singing and coaching of the assigned repertoire—as listed in the current MOIs--that cannot be completed in the current allotted time and with the current configuration. Change total course hours: 27 hours lecture, 27 hours laboratory. Changed catalogue description. MOI: Added "in singing" to "6. In class one-on-one coaching of singing. Change: "Accompanist for half of class time." to "Accompanist for lab hours". SLOs, SPOs, CCOs, MOIs, MOEs.

MODIFICATION – SLOs, SPOs, CCOs, MOIs, MOEs, contact hours (from 36 lec to 27/27) – Effective Summer 2020

### MUSC 077B DICTION FOR SINGERS - GERMAN AND FRENCH

2 units

Basics of singing diction for German and French repertoire. International Phonetic Alphabet (IPA), transcription and decoding skills, speaking, and singing of texts from pieces assigned in course. Total of 27 hours lecture and 27 hours laboratory.

Transfer Credit: CSU; UC

Grade Mode: L, A

Rationale: Rebalancing lecture and lab to reflect the needed breakdown of instruction in these performance courses; 27 hours lecture 27 hours lab. Parallels revision approved by C&I in 2018 of courses 85A, 85B, 86A, 86B. Having now taught the diction classes for four semesters, it is clear that there is a necessary lab component to the instruction of this class: the singing and coaching of the assigned repertoire—as listed in the current MOIs--that cannot be completed in the current allotted time and with the current configuration. Change total course hours: 27 hours lecture, 27 hours laboratory. Changed catalogue description. MOI: Added "in singing" to "6. In class one-on-one coaching of singing. Change: "Accompanist for half of class time." to "Accompanist for lab hours". SLOs, SPOs, CCOs, MOIs, MOEs.

## SOCIAL SCIENCES

MODIFICATION – SLOs, SPOs, CCOs, MOEs, MOIs, assignment, prereq (remove Enrollment in or completion of ANTH 001, 002, 003, or 004), texts – Effective Summer 2020

### ANTH 030G ANTHROPOLOGICAL FIELD STUDIES: SOUTHERN CALIFORNIA MUSEUMS

2 units

Field investigation of regional cultures and cultural artifacts through the study of local museum collections. Required instructional trips (an average of two hours each week). Total of 18 hours lecture and 54 hours laboratory.

Transfer Credit: CSU

Grade Mode: L, A

Rationale: SLOs, SPOs, CCOS, Method of Evaluation, Method of Instruction and Assignment, texts. Removal of prerequisite. Elaboration upon catalogue description and change to title (addition of the word Museums). NCN established (change from 0 to 25).

## VISUAL ARTS AND MEDIA STUDIES

MODIFICATION – Course title, SLOs, SPOs, MOIs, MOEs, assignments, catalog description, texts – Effective Summer 2020

### ART 020B INTERMEDIATE PAINTING

3 units

Prerequisite: ART 020A.

Investigation of formal and conceptual issues in painting. Development of individual aesthetic in art historical and contemporary art context. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU; UC

Grade Mode: L, A

Rationale: It has been twelve years since this course was updated. Changed Course Title, EMP, SLOs, SPOs, CCOs, Methods of Instruction, Methods of Evaluation of Student Performance, Assignments, Catalog Description, Text, Additional Resources Needed, Facilities Needed to Teach this Course, Equipment Needed to Teach this Course

MODIFICATION – SPOs, SLOs, CCOs, MOIs, MOEs, assignments, texts – Effective Summer 2020

### ART 033A PRODUCT DESIGN APPLICATION I

3 units

Introduction to the product design profession. Students create hands-on projects with emphasis on innovation, design methodologies, social and environmental issues, consumer trends, sketching and presentation techniques. Completion of the course results in portfolio projects. Overview of the industrial design professions which include product, transportation, environmental and entertainment design. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU  
Grade Mode: L, A

Rationale: It has been 8 years since the last update. SPO's need to be better aligned to SLO's. CCO's reworded to make it more relevant. Assignments added. MOI's and MOE's added. Added updated textbooks.

MODIFICATION – SLOs, SPOs, CCOs, MOIs, MOEs, assignment, catalog description, texts –  
Effective Summer 2020

#### ART 033B PRODUCT DESIGN APPLICATION II

3 units

Prerequisite: ART 033A.

Application of three-dimensional design to industry with emphasis on product development. Portfolio preparation and development for transfer and job placement in the field. Covers the related fields of Entertainment Design and Transportation Design. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU

Grade Mode: L, A

Rationale: Updating the mapping of SPO's to SLO's. Adding more detail to the CCO's. Adding Methods of Instruction and Evaluation. Adding assignment descriptions. Updated the course description. Added required textbooks.

MODIFICATION – SLOs, SPOs, CCOs, MOIs, MOEs, assignment, catalog description, texts –  
Effective Summer 2020

#### ART 033C PRODUCT DESIGN APPLICATION II

3 units

Prerequisite: ART 033B.

Emphasis on corporate product and graphic planning; development of student portfolio. Topics can be with Product Design, Entertainment Design or Transportation Design. Total of 36 hours lecture and 72 hours laboratory.

Transfer Credit: CSU

Grade Mode: L, A

Rationale: Updating the mapping of SPO's to SLO's. Adding more detail to the CCO's. Adding Methods of Instruction and Evaluation. Adding assignment descriptions. Updated the course description. Added required textbooks.

MODIFICATION – SLOs, SPOs, CCVOs, MOIs, MOEs, CCO, assignments, texts – Effective  
Summer 2020

#### ART 118 ADVANCED RENDERING

3 units

Prerequisite: ART 018.

Advanced graphic visualization for convincing representation emphasizing advanced presentation techniques and styles by use of marker, pencil, chalk and guache. Total of 36 hours lecture and 72 hours laboratory.

Grade Mode: L, A

Rationale: Update and correct SLOs, SPO's, CCO's, add Methods of Instruction and evaluation, assignments, add required textbook.