

CNIT R180: CERTIFICATION PREPARATION

Originator

alynch

College

Oxnard College

Discipline (CB01A)

CNIT - Computer Networking/IT

Course Number (CB01B)

R180

Course Title (CB02)

Certification Preparation

Banner/Short Title

Certification Preparation

Credit Type

Credit

Start Term

Fall 2021

Catalog Course Description

This course is designed to be taken after a student has completed a full semester 3 or 4 unit CNIT course that is mapped to a specific IT industry certification exam such as Cisco, CompTIA, Microsoft, etc. The purpose of this course is to provide focused certification preparation prior to a student actually taking the actual certification exam at a testing center such as PearsonVUE.

Taxonomy of Programs (TOP) Code (CB03)

0708.10 - *Computer Networking

Course Credit Status (CB04)

D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)

B (Transferable to CSU only)

Course Basic Skills Status (CB08)

N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)

C - Clearly Occupational

Course Cooperative Work Experience Education Status (CB10)

N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)

Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)

N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)

Y - Not Applicable

Course Noncredit Category (CB22)

Y - Credit Course

Funding Agency Category (CB23)

Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)

2 - Not Program Applicable

General Education Status (CB25)

Y - Not Applicable

Support Course Status (CB26)

N - Course is not a support course

Field trips

Will not be required

Grading method

Pass/No Pass Grading

Does this course require an instructional materials fee?

No

Repeatable for Credit

No

Is this course part of a family?

No

Units and Hours

Carnegie Unit Override

No

In-Class

Lecture

Minimum Contact/In-Class Lecture Hours

8.75

Maximum Contact/In-Class Lecture Hours

8.75

Activity

Laboratory

Minimum Contact/In-Class Laboratory Hours

26.25

Maximum Contact/In-Class Laboratory Hours

26.25

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

35

Total Maximum Contact/In-Class Hours

35

Outside-of-Class

Internship/Cooperative Work Experience

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class

Minimum Outside-of-Class Hours

17.50

Maximum Outside-of-Class Hours

17.50

Total Student Learning

Total Student Learning

Total Minimum Student Learning Hours

52.5

Total Maximum Student Learning Hours

52.5

Minimum Units (CB07)

1

Maximum Units (CB06)

1

Limitations on Enrollment

Others (specify)

Other Limitations on Enrollment

Student must have previously taken a 3 or 4 unit CNIT course.

Student Learning Outcomes (CSLOs)

Upon satisfactory completion of the course, students will be able to:

- | | |
|---|---|
| 1 | Students will list the attributes of their particular certification exam including number of questions, number and type of performance based questions, minutes allowed, and passing score. |
| 2 | Students will demonstrate proficiency on the simulated performance based questions of their particular certification exam, i.e. configure an AP, switch, router, or firewall to the settings specified in the simulated exam performance based questions. |
| 3 | At the conclusion of the certification preparatory course, students will be able to pass a simulated certification exam with a passing score of 85% or higher to demonstrate prepared ness for the actual certification exam. |

Course Objectives

Upon satisfactory completion of the course, students will be able to:

- | | |
|---|---|
| 1 | List the format of the particular certification exam they are preparing for including the number of questions, time allowed, and passing score. |
| 2 | Successfully complete all skills based simulation certification preparation questions. |
| 3 | Internalize certification preparation strategies to maximize cognitive function on the day of the exam. |
| 4 | Summarize certification taking tips including time management, marking questions for review, properly utilizing an accommodation, dealing with second guessing answer choices, as well as reading all questions carefully and evaluating all of the answer choices. |
| 5 | Pass a simulated exam above the threshold of the particular certification exam the student is preparing. |

Course Content

Lecture/Course Content

1. Certification Exam Format (will vary for each networking/IT cert exam)
 - a. Number of questions
 - b. Type of questions
 - c. Minutes allowed
 - d. Accommodations provided, if any
 - e. Passing score
2. Skills Based Questions
 - a. Number of skills based questions
 - b. Skill set measured
 - c. Skills based content related to the particular certification exam (Cisco, CompTIA, Microsoft, CWNA)
3. Certification Exam Strategies and Test Taking Tips
 - a. Proper rest and dietary concerns to maximize cognitive function
 - b. Time management
 - c. Managing emotions during the exam
 - d. Marking questions for review (if allowed)
 - e. Second guessing answer choices
 - f. Properly reading questions and evaluating all answer choices
4. Certification Exam Content
 - a. Content coverage related to Cisco, CompTIA, Microsoft certification exam prep question.

Laboratory or Activity Content

1. Skills Based Lab Activities
 - a. Hands-on labs and simulations utilizing software based on the specific certification exam the student is preparing
2. Simulated Certification Practice Questions
 - a. Certification prep multiple-choice questions based on the specific certification exam the student is preparing
3. Simulated Exams
 - a. Full simulated certification prep exams

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Problem solving exercises
Skills demonstrations

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Laboratory activities
Objective exams
Problem-Solving Assignments
Quizzes
Skill tests

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Class discussions
Distance Education
Demonstrations
Instructor-guided use of technology
Laboratory activities
Lecture

Describe specific examples of the methods the instructor will use:

1. Demonstrate solutions to the different performance based questions that a student may experience on their certification exam.
2. Illustrate the answers to specific certification exam practice questions and review content where appropriate.

3. Lecture on certification exam test taking strategies including time management, managing stress, tips for marking and reviewing questions, and best practices to optimize cognitive function.

Representative Course Assignments

Writing Assignments

1. No writing necessary as specified in the Methods of Evaluation section.

Reading Assignments

1. Students will utilize their course textbook or online curriculum (Cisco Academy, TestOut, etc.) outside of class and review identified weak areas.

Skills Demonstrations

1. Depending on the certification exam; students may configure switches, routers, wireless access points, and firewalls to specifications outlined in a performance-based question.

Outside Assignments

Representative Outside Assignments

1. Students will complete IT certification simulated exams outside of the classroom which will include reading explanations for incorrect answers.
2. Students will use virtualized lab simulators to prepare for the performance based questions that they will experience on the actual IT certification exam.

District General Education

A. Natural Sciences

B. Social and Behavioral Sciences

C. Humanities

D. Language and Rationality

E. Health and Physical Education/Kinesiology

F. Ethnic Studies/Gender Studies

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

Area C: Arts and Humanities

Area D: Social Sciences

Area E: Lifelong Learning and Self-Development

Area F: Ethnic Studies

CSU Graduation Requirement in U.S. History, Constitution and American Ideals:

IGETC

Area 1: English Communication

Area 2A: Mathematical Concepts & Quantitative Reasoning

Area 3: Arts and Humanities

Area 4: Social and Behavioral Sciences

Area 5: Physical and Biological Sciences

Area 6: Languages Other than English (LOTE)

Textbooks and Lab Manuals

Resource Type

Other Instructional Materials

Description

Students will need the book or online curriculum from the full semester course they took..

Resource Type

Software

Description

Students will utilize software based IT certification prep software such as CompTIA CertMaster.

Distance Education Addendum

Definitions

Distance Education Modalities

Hybrid (51%–99% online)

Hybrid (1%–50% online)

100% online

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

Regular Effective/Substantive Contact

Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Topics will be presented for discussion with the opportunity to provide feedback, present and answer questions.
E-mail	Email will be used for individual interaction between professor and student, to send group email reminders of deadlines, to inform of upcoming course content or events.
Face to Face (by student request; cannot be required)	Face to face with students will take place at student request to discuss specific questions, issues, or concerns.
Video Conferencing	Zoom or another type of video conferencing solution may be utilized for instruction, lab simulations, and to answer student questions live.
Other DE (e.g., recorded lectures)	Any real-time instruction will be recorded and available to students through the LMS.

Hybrid (51%–99% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Topics will be presented for discussion with the opportunity to provide feedback, present and answer questions.
E-mail	Email will be used for individual interaction between professor and student, to send group email reminders of deadlines, to inform of upcoming course content or events.
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Video Conferencing	Zoom or another type of video conferencing solution may be utilized for instruction, lab simulations, and to answer student questions live.
Other DE (e.g., recorded lectures)	Any real-time instruction will be recorded and available to students through the LMS.

100% online Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Topics will be presented for discussion with the opportunity to provide feedback, present and answer questions.
E-mail	Email will be used for individual interaction between professor and student, to send group email reminders of deadlines, to inform of upcoming course content or events.
Video Conferencing	Zoom or another type of video conferencing solution may be utilized for instruction, lab simulations, and to answer student questions live.
Other DE (e.g., recorded lectures)	Any real-time instruction will be recorded and available to students through the LMS.

Examinations**Hybrid (1%–50% online) Modality**

Online
On campus

Hybrid (51%–99% online) Modality

Online
On campus

Primary Minimum Qualification

COMPUTER INFORMATION SYS

Additional local certifications required

The instructor must hold an IT certification from Cisco, Microsoft, or CompTIA. If an instructor is preparing students to prepare for and pass an IT certification exam, they must hold at least one IT certification exam to be qualified.

Review and Approval Dates**Department Chair**

08/21/2020

Dean

08/21/2020

Technical Review

08/26/2020

Curriculum Committee

08/26/2020

DTRW-I

MM/DD/YYYY

Curriculum Committee

12/09/2020

Board

MM/DD/YYYY

CCCCO

MM/DD/YYYY

Control Number

CCC000599229

DOE/accreditation approval date
MM/DD/YYYY