# 8/15/2020

# brcc keystone logo

Baton Rouge Community College

*Academic Affairs Master Syllabus*

Date Approved: 2 September 2020

Term and Year of Implementation: Fall 2020

**Course Title:** Cisco Part III

**BRCC Course Rubric:** INTE 2133

**Previous Course Rubric**: INTE 2130

**Lecture Hours per week-Lab Hours per week-Credit Hours**: 1-6-3

**Per semester: Lecture Hours-Lab Hours-Instructional Contact Hours**: 15-90-105

**Louisiana Common Course Number:**

**CIP Code:** 11.0901

**Course Description:** Describes the architecture, components, and operations of routers and switches in a larger and more complex network. This course prepares students to configure and troubleshoot routers and switches and resolve common issues with advanced routing and network protocols and network infrastructures.

**Prerequisites:**  INTE 2123

**Co-requisites:** None

**Suggested Enrollment Cap:** 20

**Learning Outcomes.** *Upon successful completion of this course, the students will be able to:*

1. Demonstrate an understanding of the architecture, components, and operations of routers and switches in a complex network.

2. Demonstrate the ability to configure advanced routers and switches.

3. Demonstrate the ability to troubleshoot advanced routers and switches.

4. Solve problems commonly encountered in advanced routing and networking protocols and in network infrastructures.

**Assessment Measures.** Assessment of all learning outcomes will be measured using the following methods:

1. Assessment measures may include, but are not limited to, essays, presentations, speeches, portfolios, performances, individual and collaborative projects, in-class activities, lab reports, homework, quizzes, exams, industry-based standards, and simulated training activities.

**Information to be included on the Instructor’s Course Syllabi:**

* ***Disability Statement*:** Baton Rouge Community College seeks to meet the needs of its students in many ways. See the Office of Disability Services to receive suggestions for disability statements that should be included in each syllabus.
* ***Grading:*** The College grading policy should be included in the course syllabus. Any special practices should also go here. This should include the instructor’s and/or the department’s policy for make-up work. For example in a speech course, “Speeches not given on due date will receive no grade higher than a sixty” or “Make-up work will not be accepted after the last day of class”.
* ***Attendance Policy*:** Include the overall attendance policy of the college. Instructors may want to add additional information in individual syllabi to meet the needs of their courses.
* ***General Policies*:** Instructors’ policy on the use of things such as beepers and cell phones and/or hand held programmable calculators should be covered in this section.
* ***Cheating and Plagiarism*:** This must be included in all syllabi and should include the penalties for incidents in a given class. Students should have a clear idea of what constitutes cheating in a given course.
* ***Safety Concerns:*** In some courses, this may be a major issue. For example, “No student will be allowed in the lab without safety glasses”. General statements such as, “Items that may be harmful to one’s self or others should not be brought to class”.
* ***Library/ Learning Resources:*** Since the development of the total person is part of our mission, assignments in the library and/or the Learning Resources Center should be included to assist students in enhancing skills and in using resources. Students should be encouraged to use the library for reading enjoyment as part of lifelong learning.

**Expanded Course Outline:**

I. Introduction to Scaling Networks

II. LAN Redundancy

III. LAN Aggregation

IV. Wireless LANs

V. Adjust and Troubleshoot Single-Area OSPF

VI. Multi-area OSPF

VII. EIGRP

VIII. EIGRP Advanced Configurations and Troubleshooting

IX. IOS Images and Licensing