



North Idaho College

Coeur d'Alene · Business · Computer Information Technology

Systems Administration II

CITE-206

Fall 2023 Section 100 3 Credits 08/21/2023 to 12/14/2023 Modified 08/21/2023

Contact Information

Course email Address: *cite-206@studentsnic.onmicrosoft.com*

Professor, MCT: Randy Graves

Email: rkgraves@nic.edu

Office: HED-224D

Phone: (208) 769-7859

Website: <http://www.linkedin.com/in/rkgraves/> (<http://www.linkedin.com/in/rkgraves/>)

Office Hours:

Monday - Thursday: 9:30 - 10:00 AM, Noon - 12:30 PM, and 3:30 - 4:00 PM

Friday: 8:00 - 8:30 AM & 1:30 - 2:00 PM

Or, by appointment

Meeting Times

Hybrid - Online & Face-Face. Mondays 10:00-11:50 HED-224G

Description

This course covers the administration tasks necessary in maintaining a network server in a business infrastructure. Topics include deploying images, managing users and groups in a directory database, managing policies, securing data, remote access, monitoring, and update management.

Materials

Most Course Materials Provided

Students will need a valid payment method for the Cloud pay-as-you-go portion of the course

Outcomes

Upon successful completion of this course students should be able to:

- Design an Active Directory Domain Services infrastructure
- Manage and maintain an Active Directory Directory Service
- Create and manage Group Policy
- Design an Active Directory Certificate Services infrastructure
- Design Active Directory Identity Federation access solutions

Assessment

Time Management & Professional Conduct: 10%

Assignments completed on time, demonstrate a positive problem-solving attitude, efficiently manage course responsibilities, effective instructor & peer communications, participate in peer-collaboration, demonstrate soft skills(1). Professionally share, manage, and maintain, course resources.

Notes:(1)

<http://www.techrepublic.com/blog/10things/10-highly-valued-soft-skills-for-it-pros/3353>)

http://en.wikipedia.org/wiki/Soft_skills

Knowledge Checks & Cloud Foundations Labs: 60%

Students will participate in a collaborative course project. Grading will be based on management of assign tasks, peer collaboration, and participation.

Final Exam – 30%

This course utilizes an industry certification exam as the courses final exam. Students are required to take an official IT certification exam as their final exam (exam voucher provided).

Please Note: Late work is not accepted

Grades Assigned by Overall Percentage:

93%+	90 to 92%	87 to 89%	83 to 86%	80 to 82%	77 to 79%	73 to 76%	70 to 72%	Below 69%
A	A-	B+	B	B-	C+	C	C-	no credit

CITE-206 (lecture) is part of a two course package which also include CITE-207 (lab).

* Course Policies

Attendance:

For scheduled face-to-face class times a minimum of 80% attendance is required in order to receive full course credit.

📅 Schedule

CITE-206 & 207 Course Schedule - Fall 2023 (Hybrid)		Due Sunday 11:59 PM rev-0	
AWS Cloud Foundations			
Week-1 (8-21)	Introduction: Module 1: Cloud Concepts Overview	Knowledge Check: Cloud Concepts	
Week-2 (8-28)	Module 2: Cloud Economics and Billing Module 3: AWS Global Infrastructure Overview	Knowledge Check: Cloud Billing Econ. Knowledge Check: AWS Infrastructure	
Week-3 (9-5)	Module 4: Cloud Security	Knowledge Check: Cloud Security Lab 1: Intro to AWS IAM	
Week-4 (9-11)	Module 5: Networking and Content Delivery	Knowledge Check: VPC Lab 2: Build a VPC & Web Server	

Week-5 (9-18)	Module 6: Compute	Knowledge Check: Amazon VPC Lab 3: Intro to Amazon EC2	
Week-6 (9-25)	Module 7: Storage Module 8: Databases	Knowledge Check: Storage Lab 4: Working with EBS Knowledge Check: Databases Lab 5: Build a Database Server	
Week-7 (10-2)	Module 9: Cloud Architecture Module 10: Automatic Scaling and Monitoring	Knowledge Check: Cloud Architecture Lab 6: Scale & Load Balance your Arch.	
AWS Academy Learner Lab		Projects:	
Week-8 (10-9)	Introduction: AWS Learner Lab Projects WK-1:	xx-VPC xx-Server1 xx-Server2	
Week-9 (10-16)	AWS Learner Lab Projects WK-2	xx-NAT-GW Snapshots & AMIs xx-VPC2 & xx-Server3 VPC Peering	
Week-10 (10-23)	AWS Learner Lab Projects WK-3	xx-Linux1 xx-NAT-GW2 & xx-Linux2 Lightsail - Windows Server 2019 IIS Lightsail - Wordpress	

AWS.amazon.com			
Week-11 (10-30)	Introduction: AWS.amazon.com Projects WK-1	Create a Root and IAM Admin user Route 53 DNS Testing Route 53 DNS Workspaces Windows 10 – Quick Setupxx-VPC-3 & Server4	
Week-12 (11-6)	AWS.amazon.com Projects WK-2	AWS CLI Client VPN Part-1 Client VPN Part-2 Client VPN Part-3 (OpenVPN)	
Week-13 (11-13)	AWS.amazon.com Projects WK-3	Import a Virtual Machine Part-1 Import a Virtual Machine Part-2 Import a Virtual Machine Part-3	
Week-14 (11-20)	Review / Thanksgiving		
AWS Cloud Practitioner Certification Exam Prep			
Week-15 (11-27)	Introduction: AWS Cloud Practitioner certification exam prep WK-1	Self-Study	

Week-16 (12-4)	AWS Cloud Practitioner certification exam prep WK-2	Self-Study
Finals (12-11)	Final Exam – AWS Cloud Practitioner Certification Exam (to be completed no later than Wed 5:00 PM)	

Additional Items

Computer and Internet Access:

This course is delivered online (Internet). To be successful with this course students are required to have readily available access to a reliable computer with dependable high speed Internet access.

Acceptable Computer Use Policy:

The computing hardware, software, and other tools, utilized during this course are intended solely to support learning and the course objectives. Do not modify, install, or remove any hardware, software, change the wallpaper, or add/change any other configurations, unless directed to do so by your instructor.

Acceptable Internet Use Policy:

Internet access, when available, is provided solely to support classroom learning and the course objectives.

FREE Academic Tutoring: Free, unlimited academic tutoring is available to all current NIC students. Stop by The Cardinal Learning Commons in LKH 118 to create an account or visit the Academic Tutoring website www.nic.edu/clc/tutoring to sign up for tutoring, view tutor schedules, set appointments, or to learn more about the tutoring program.

Division Policies

Student Responsibility

As outlined in the Student Code of Conduct, all North Idaho College students have both rights and responsibilities: Please access www.nic.edu/ferpa/StudentCode/index.htm for complete information that pertains to this subject. For a complete explanation of the North Idaho College Statement on [Academic Honesty & Academic Integrity](#) (<http://www.nic.edu/modules/images/websites/121/file/section5/5.06.01.policy.pdf>) please refer to Policy 5.06 & Procedure 5.06.01:

Academic Integrity

Disruptive behavior in the class is not tolerated. To quote from the NIC “Student Code of Conduct,” Article II, (found in the Student Handbook):

In order to carry out North Idaho College’s Mission and to create a community of learners, the students, faculty, staff, and administrators must share common principles or values. These values – which include honesty, trust, fairness, respect, and responsibility – make up academic integrity.

Violations of academic integrity may result in failure of an assignment, failure of the course, or more serious sanctions.

Institutional Policies

Academic Dishonesty

Violations of academic integrity involve using or attempting to use any method that enables an individual to misrepresent the quality or integrity of his or her work at North Idaho College. These violations include the following:

- Cheating: using or attempting to use unauthorized materials, information, or study in any academic exercise.
- Fabrication: falsifying or inventing any information or citation in an academic exercise.
- Plagiarism: knowingly representing the words or ideas of another as one’s own in an academic exercise.
- Violation of Intellectual Property: stealing, altering, or destroying the academic work of other members of the community or the educational resources, materials, or official documents of the college.
- Facilitating Academic Dishonesty: knowingly helping another to attempt to violate any provisions of this policy.

Violations of academic integrity may result in failure of an assignment, failure of the course, or more serious sanctions.

For a complete explanation of the North Idaho College Statement on Academic Honesty & Academic Integrity please refer to Policy 5.06 & Procedure 5.06.01 in the [NIC Policy Manual](http://www.nic.edu/policy/) (<http://www.nic.edu/policy/>).

Student Code of Conduct

The Student Code of Conduct applies to any student enrolled at North Idaho College. This includes, but is not limited to, face-to-face classes and Internet classes.

NIC shall maintain a Student Code of Conduct that specifically addresses prohibited behavior and assures due process for alleged violations. The Code of Conduct shall make clear possible sanctions for such actions. [Policy Manual](https://www.nic.edu/policy/all/506/) (<https://www.nic.edu/policy/all/506/>) (See 5.06)

Disability Support Services and the Americans with Disabilities Act (ADA)

In compliance with the Americans with Disabilities Act of 1990 and Section 504/508 of the Rehabilitation Act of 1973, North Idaho College provides accommodations to eligible students who experience barriers in the educational setting due to learning, emotional / mental, physical, visual, or hearing disabilities. Instructors will provide accommodations to students only after having received a Letter of Accommodation from Disability Support Services (DSS).

If a student would like to request accommodations, he or she must contact DSS so that a Letter of Accommodation may be sent to the instructor. Students requesting accommodations should contact DSS as early in the semester as possible to avoid delay of accommodation due to student load.

Accommodations are not retroactive. DSS provides academic accommodations, access, assistance and services at NIC and at the North Idaho Consortium of Higher Education campus.

Contact:

[Disability Support Services Website \(https://www.nic.edu/dss/\)](https://www.nic.edu/dss/)

(208) 769-5947

Withdrawal

Please check the [NIC Calendar \(https://www.nic.edu/calendar/\)](https://www.nic.edu/calendar/) for the last day students can withdraw from courses.

Instructor-Initiated Withdrawal: An instructor has the right to withdraw a student for academic reasons. For more information, see the [Instructor-Initiated Withdrawal Procedure \(https://www.nic.edu/policy/all/50402/\)](https://www.nic.edu/policy/all/50402/).

Financial Aid Satisfactory Progress (SAP): Federal Regulations require North Idaho College to establish Satisfactory Academic Progress standards (SAP) for all financial aid recipients. The purpose of SAP standards are meant to ensure that students and academic institutions are held accountable to the taxpayer-funded federal student aid programs while students complete their academic goals in a timely manner. This process monitors student performance in all terms of enrollment, including terms in which the student did not receive financial aid. For more information, see the [Financial Aid Satisfactory Progress \(http://www.nic.edu/websites/default.aspx?dpt=29&pageId=3025\)](http://www.nic.edu/websites/default.aspx?dpt=29&pageId=3025) website.

For more information on withdrawals, see the [NIC Catalog \(https://www.nic.edu/catalog/\)](https://www.nic.edu/catalog/).

Title IX

North Idaho College seeks to provide an environment that is free of bias, discrimination, and harassment. If you have been the victim of sexual harassment/misconduct/assault we encourage you to report this. If you report this to any college employee, (except for a licensed counselor or health care professional) she or he must notify our college's Title IX coordinator about the basic facts of the incident (you may choose whether you or anyone involved is identified by name). For more information about your options at NIC, please go to: [NIC Title IX - Sexual Assault, Discrimination, and Harassment \(https://www.nic.edu/titleix/\)](https://www.nic.edu/titleix/) or call (208) 676-7156

Removal From Class For Non-Attendance

Attendance is based on your participation in this class. Failure to attend will result in your being removed from this class and may result in your financial aid award being reduced. You are responsible for confirming the accuracy of your attendance record.

Student Questions and Concerns

NIC instructors are a great resource for course related questions as well as general questions regarding your field of study and career. In addition, your instructor is your first point of contact if you have a question or concern about this course. Instructor office hours are posted here on the syllabus as well as in the campus directory. Division chairs are an additional resource you may contact if you are unable to resolve your question or concern with your instructor. The most current contact information for the division chair can be found here. [Office of Instruction - Division Chairs \(https://www.nic.edu/instruction/deans-and-division-chairs/\)](https://www.nic.edu/instruction/deans-and-division-chairs/)