TRIAL COURSE OR NEW COURSE PROPOSAL

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<tr>
<th>SUBMITTED BY:</th>
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<tr>
<td><strong>Department</strong></td>
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<tr>
<td><strong>College/School</strong></td>
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<td><strong>Prepared by</strong></td>
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<td><strong>Phone</strong></td>
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<tr>
<td><strong>Email Contact</strong></td>
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<tr>
<td><strong>Faculty Contact</strong></td>
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See [http://www.uaf.edu/uafgov/faculty/cd/cdman.html](http://www.uaf.edu/uafgov/faculty/cd/cdman.html) for a complete description of the rules governing curriculum & course changes.

1. **ACTION DESIRED (check one):**

   - [ ] Trial Course
   - [X] New Course

2. **COURSE IDENTIFICATION:**

   - **Dept:** CITS
   - **Course #:** 265
   - **No. of Credits:** 3

   Justify upper/lower division status & number of credits:

   This course will provide students with an introduction to computer and information security and would be appropriate for students entering their third or fourth semester of the IT Specialist associate degree program.

   Approximately the following amount of instructional time will be delivered in each of the following major topic areas (Note: the terminology used in the following list is generic language and will not necessarily match perfectly with the topics language used on the sample syllabus being submitted with this new course form): Active Directory Domain Services (AD DS) Overview, 3 hrs.; AD Administrative Tools Overview, .5 hrs.; Creating Objects in Active Directory, .5 hrs.; Delegation and Security of Active Directory Objects, 2 hrs.; Creating and Managing User Accounts, 3 hrs.; Creating and Managing Groups, 3 hrs.; Creating and Managing Computer Objects, 3 hrs.; Group Policy and Group Policy Objects (GPOs), 3 hrs.; Security Settings and GPOs, 1 hr.; Software Installation and GPOs, 1 hr.; Auditing and GPOs, 1 hr.; Password Policies and GPOs, 1 hr.; Domain Name System and AD Domain Services (AD DS), 2 hrs.; Domain Controller Installation and Configuration, 3 hrs.; Operations Masters, 1 hr.; DFS Replication of SYSVOL, 1 hr.; Sites and Subnets, 2 hrs.; Global Catalog and Application Directory Partitions, 1 hr.; AD Replication, 1.5 hrs.; Domain and Forest Function Levels, 1 hr.; Multiple Domains and Trust Relationships, 1 hr.; Directory Maintenance and Data Store Protection, 1.5 hrs.; Directory Performance Management, 1 hr.; AD Lightweight Directory Service (AD LDS), .5 hrs.; AD Certificate Services (AD CS), .5 hrs.; AD Rights Management Services (AD RMS), .5 hrs.; AD Federation Services (AD FS), .5 hrs.

3. **PROPOSED COURSE TITLE:** Directory Services Administration

4. **CROSS LISTED?**

   - [ ] YES
   - [ ] NO

   If yes, Dept: NA
   Course #: NA

   (Requires approval of both departments and deans involved. Add lines at end of form for such signatures.)

5. **STACKED?**

   - [ ] YES
   - [ ] NO

   If yes, Dept: NA
   Course #: NA

6. **FREQUENCY OF OFFERING:**

   - As Demand Warrants

   (Every or Alternate) Fall, Spring, Summer — or As Demand Warrants

7. **SEMESTER & YEAR OF FIRST OFFERING**

   (if approved)

   Spring 2009
8. COURSE FORMAT:
Note: Course hours may not be compressed into fewer than three days per credit. Any course compressed into fewer than six weeks must be approved by the college or school's curriculum council. Furthermore, any core course compressed to less than six weeks must be approved by the core review committee.

<table>
<thead>
<tr>
<th>COURSE FORMAT: (check one)</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>X</th>
<th>6 weeks to full semester</th>
</tr>
</thead>
</table>

OTHER FORMAT (specify)
NA

Mode of delivery (specify lecture, field trips, labs, etc)
Lecture

9. CONTACT HOURS PER WEEK:

<table>
<thead>
<tr>
<th>LECTURE hours/weeks</th>
<th>3</th>
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</thead>
<tbody>
<tr>
<td>LAB hours/week</td>
<td>0</td>
</tr>
<tr>
<td>PRACTICUM hours/week</td>
<td>0</td>
</tr>
</tbody>
</table>

Note: # of credits are based on contact hours. 800 minutes of lecture=1 credit. 2400 minutes of lab in a science course=1 credit. 1600 minutes in non-science lab=1 credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See http://www.uaf.edu/uafgov/faculty/cd/credits.html for more information on number of credits.

OTHER HOURS (specify type)
NA

10. COMPLETE CATALOG DESCRIPTION including dept., number, title and credits (50 words or less, if possible):

CITS F265 Directory Services Administration
3 Credits Offered As Demand Warrants
This course teaches students the purpose and components that make up directory services and the role these services play in storing, organizing and managing information in a network environment. Students will learn how to create and configure directory service objects to manage access to network resources; to implement and manage group policy objects; and to backup, restore, monitor and troubleshoot directory service related issues. Prerequisite: CITS F204 or F241 and CITS F212 or instructor approval. Recommended: CITS F240 or equivalent skills.(3+0)

11. COURSE CLASSIFICATIONS: (undergraduate courses only. Use approved criteria found on Page 10 & 17 of the manual. If justification is needed, attach on separate sheet.)

<table>
<thead>
<tr>
<th>H = Humanities</th>
<th>N = Natural Science</th>
<th>S = Social Sciences</th>
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</thead>
</table>

Will this course be used to fulfill a requirement for the baccalaureate core? YES X NO

IF YES, check which core requirements it could be used to fulfill:

<table>
<thead>
<tr>
<th>O = Oral Intensive, Format 6</th>
<th>W = Writing Intensive, Format 7</th>
<th>Natural Science, Format 8</th>
</tr>
</thead>
</table>

12. COURSE REPEATABILITY:

Is this course repeatable for credit? YES X NO

Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time).
NA

How many times may the course be repeated for credit?
NA TIMES

If the course can be repeated with variable credit, what is the maximum number of credit hours that may be earned for this course?
NA CREDITS
13. GRADING SYSTEM:

<table>
<thead>
<tr>
<th>LETTER</th>
<th>PASS/FAIL</th>
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<tbody>
<tr>
<td>X</td>
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14. PREREQUISITES

CITS F204 or F241 and CITS F212 or instructor approval

These will be required before the student is allowed to enroll in the course.

15. SPECIAL RESTRICTIONS, CONDITIONS

None

16. PROPOSED COURSE FEES

None

17. PREVIOUS HISTORY

Has the course been offered as special topics or trial course previously? Yes/No

Yes/No: No

If yes, give semester, year, course #, etc.:

NA

18. ESTIMATED IMPACT

WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

It is anticipated that an adjunct instructor will be hired to teach this course. If course enrollments are not sufficient to meet the costs of hiring an adjunct, the course will not be offered; or depending on enrollments in other courses, the teaching load of a full-time faculty may be adjusted.

19. LIBRARY COLLECTIONS

Have you contacted the library collection development officer (ffklj@uaf.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

<table>
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<tr>
<th>No</th>
<th>Yes</th>
<th>X</th>
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Karen Jensen, the collection development officer for the library, was contacted by email on 9/29/2008. We don’t anticipate the need for any

20. IMPACTS ON PROGRAMS/DEPTS

What programs/departments will be affected by this proposed action?

Include information on the Programs/Departments contacted (e.g., email, memo)

ITS. All CRCD CIOS faculty from the following campus have been contacted regarding this change: IAC, KuC, NWC, TVC.

21. POSITIVE AND NEGATIVE IMPACTS

Please specify positive and negative impacts on other courses, programs and departments resulting from the proposed action.

Positive Impacts: This course will serve as a required course for the Network and System Administration concentration of the IT Specialist A.A.S. degree program. The addition of this course will provide IT Specialist degree students with a comprehensive understanding of identity management and centralized administration in a network environment. Students will build on the following skills introduced in CITS F212 Server Operating Systems: creating and managing users and groups; securing access to resources; and implementing security policies. Whereas, the focus of these topics in CITS F212 is implementation on a single server; in CITS F265, the focus is centralized implementation through directory services to multiple servers within the network environment.
The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

Over the past nine months, faculty within the IT Specialist program have been actively collaborating and seeking input from our community advisory council, recent graduates, and the UAF Computer Science department with the goal of streamlining and improving the educational opportunities provided through the certificate and associate degree programs. One of the significant outcomes of this process was the decision to offer three concentrations that will enable students to develop a comprehensive and in-depth set of skills and knowledge within specific areas of information technology; rather than a less comprehensive set of skills and knowledge over a broader range of information technology areas.

As was mentioned under item 21, this course will serve as a required course for the Network and System Administration concentration of the IT Specialist A.A.S. degree program. An understanding of directory services is fundamental to understanding how to administer systems in a network environment. Directory services provide a system administrator the ability to centrally manage access to network resources, security policies, and delegation of administrative tasks. Without this course, graduates from this concentration area will lack the skills and knowledge expected by employers hiring our graduates for system administration positions. The addition of this course will enable IT Specialist students the opportunity to learn these essential system administration skills.
### APPROVALS: SIGNATURES ON FILE AT THE GOVERNANCE OFFICE

<table>
<thead>
<tr>
<th>Signature, Chair, Program/Department of:</th>
<th>IT Specialist Program</th>
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<tr>
<td>Date</td>
<td>10/6/2008</td>
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<table>
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<tr>
<th>Signature, CRCD Division Coordinator for:</th>
<th>Business Systems Technology</th>
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<td>Date</td>
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<tr>
<th>Signature, Chair, College/School Curriculum Council for:</th>
<th>College of Rural and Community Development</th>
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<td>Date</td>
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<tr>
<th>Signature, Dean, College/School of:</th>
<th>College of Rural and Community Development</th>
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**Signature of Provost (if applicable)**

Offerings above the level of approved programs must be approved in advance by the Provost.

### ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

<table>
<thead>
<tr>
<th>Signature, Chair, UAF Faculty Senate Curriculum Review Committee</th>
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<td>Date</td>
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### ADDITIONAL SIGNATURES: (If required)

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<td>Date</td>
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ATTACH COMPLETE SYLLABUS (as part of this application).

Note: syllabus must follow the guidelines discussed in the Faculty Senate Guide http://www.uaf.edu/uafgov/faculty/cd/syllabus.html.
The department and campus wide curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course change will be denied.

SYLLABUS CHECKLIST FOR ALL UAF COURSES
During the first week of class, instructors will distribute a course syllabus. Although modifications may be made throughout the semester, this document will contain the following information (as applicable to the discipline):

1. Course information:
   - Title, number, credits, prerequisites, location, meeting time
   (make sure that contact hours are in line with credits).

2. Instructor (and if applicable, Teaching Assistant) information:
   - Name, office location, office hours, telephone, email address.

3. Course readings/materials:
   - Course textbook title, author, edition/publisher.
   - Supplementary readings (indicate whether required or recommended) and any supplies required.

4. Course description:
   - Content of the course and how it fits into the broader curriculum;
   - Expected proficiencies required to undertake the course, if applicable.
   - Inclusion of catalog description is strongly recommended, and
   - Description in syllabus must be consistent with catalog course description.

5. Course Goals (general) and Student Learning Outcomes (more specific)

6. Instructional methods:
   - Describe the teaching techniques (e.g., lecture, case study, small group discussion, private instruction, studio instruction, values clarification, games, journal writing, use of Blackboard, audio/video conferencing, etc.).

7. Course calendar:
   - A schedule of class topics and assignments must be included. Be specific so that it is clear that the instructor has thought this through and will not be making it up on the fly (e.g., it is not adequate to say “lab”. Instead, give each lab a title that describes its content). You may call the outline Tentative or Work in Progress to allow for modifications during the semester.

8. Course policies:
   - Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity.

9. Evaluation:
   - Specify how students will be evaluated, what factors will be included, their relative value, and how they will be tabulated into grades (on a curve, absolute scores, etc.)

10. Support Services:
    - Describe the student support services such as tutoring (local and/or regional) appropriate for the course.

11. Disabilities Services:
The Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials.
    - State that you will work with the Office of Disabilities Services (203 WHIT, 474-7043) to provide reasonable accommodation to students with disabilities.
Course Syllabus
CITS F265 Directory Services Administration
University of Alaska Fairbanks

Course Information
Course Number-Section, Title: CITS F265 TE1 Directory Services Administration
Number of Credits: 3.0
Prerequisite: CITS F204 or F241 and CITS F212 or instructor approval
Recommended: CITS F240 or equivalent skills.
Class Location: UAF Downtown Center, Room 210
Meeting Days & Time: Thursday, 6:00-9:00 PM, 9/4 – 12/18.
This course will consist of one 3-hour class lecture delivered to students once a week for 14 weeks. Students can expected to spend an additional six to nine hours per week outside of scheduled classroom lecture studying lecture material, completing reading assignments and homework. A final exam will be given during the 15th week.

Instructor Information
Name: Keith Swarner
Office Location: UAF Downtown Center, 510 Second Ave, Fairbanks AK, room 210B
Office Hours: 2:00 pm – 4:30 pm Monday, Tuesday and Thursday or by appointment
Telephone: 455-2820
Email: keith.swarner@uaf.edu

Course Readings/Materials
Required textbook/materials:
Title: Configuring Windows Server 2008 Active Directory Services
Author(s): Dan Holme, Nelson Ruest, and Danielle Ruest
Publisher: Microsoft Press
Recommended textbook/materials: None

Course Description
This course teaches students the purpose and components that make up directory services and the role these services plays in storing, organizing and managing information in a network environment. Students will learn how to create and configure directory service objects to manage access to network resources; to implement and manage group policy objects; and to backup, restore, monitor and troubleshoot directory service related issues.

Course Goals
Upon successful completion of this course, the student will be able to define, explain, or perform tasks related to the following:
1. Explain the role Active Directory (AD) serves within a network environment
2. Use Microsoft Management Consoles, the Windows Command Line, Windows PowerShell, and VBScript, as appropriate to manage AD and AD objects
3. Plan, create, and manage AD objects including users, groups, computers, and OUs
4. Use Group Policy to configure and manage groups of AD objects within sites, domains and OUs
5. Understand how to install and configure AD Domain Service (DS) to create domains, trees, and forests
6. Understand the administrative tasks used to manage and maintain AD DS
7. Understand how to sites and subnets are used to manage the physical infrastructure of AD DS
8. Understand and explain other technologies besides AD DS that can be implemented through AD; including: AD LDS, AD CS and AD RMS

**Student Learning Outcomes**

Upon successful completion of this course, the student will be able to:

1. Explain the purpose and relationship between Active Directory technologies that comprise a complete identity and access (IDA) solution
2. Understand the components of an Active Directory Infrastructure which include: Active Directory data stores; Domain Controllers; Domains; Forests; Trees; Function levels; Organizational Units (OUs); and Sites
3. Identify the set of technologies and components that make up a complete AD infrastructure
4. Use the Microsoft Management Console (MMC) interface to use built-in administrative tools and to build and deploy customized administrative tools
5. Install Windows PowerShell features on Windows Server
6. Identify key elements of the Windows PowerShell syntax, including cmdlets, variables, aliases, namespaces, and providers
7. Use built-in administrative tools to perform common administrative tasks to user, group, computer and organizational unit (OU) objects
8. Create and manage user, group and computer accounts using the Active Directory Users and Computers (ADUC) administrative tool, Windows Command Line utilities, Windows PowerShell and VBScript
9. Identify the purpose and requirements of user account attributes and user name properties
10. Modify attributes of multiple users simultaneously
11. Explain the difference between and the purpose of the different group types and scopes available to manage objects within AD
12. Develop a group management strategy and manage group membership
13. Recognize and manage default domain groups
14. Manage and convert group type and scope and identify the types of objects that can be members of groups of various scopes
15. Assign permissions to special identities
16. Describe the purpose and benefit of delegating administrative task and the relationship between delegation and OU design
17. Plan and create OU structure for computers to support delegation of administrative tasks
18. Manage objects within and between OU
19. Identify the components of Group Policy and Group Policy Objects (GPO)
20. Explain the fundamentals of Group Policy processing
21. Create, edit, link, and manage GPOs
22. Evaluate GPO inheritance and precedence
23. Explain the effects of the Block Inheritance and Enforced link options, and use of permissions to filter GPOs
24. Analyze the set of GPOs and policy settings that have been applied to a user or computer
25. Configure security settings on a computer using the Local Security Policy
26. Create and apply security templates to manage security configuration
27. Analyze security configuration based on security templates
28. Create, edit, and apply security policies using the Security Configuration Wizard
29. Deploy security configurations with Group Policy
4.12. Deploy and remove software to computers and users using Group Policy
4.13. Use Group Policy to configure and manage auditing settings
5.1. Understand the relationship between AD and the Domain Name System (DNS) service
5.2. Install and configure DNS to support AD
5.3. Install a Domain Controller (DC), using the Windows interface, DCpromo.exe command-line parameters, or an answer file for unattended installation
5.4. Configure a domain controller with the Active Directory Domain Services (AD DS) role
5.5. Design an effective domain and tree structure for AD DS
5.6. Create new domains and trees
6.1. Define the purpose of the five single master operations in Active Directory forests
6.2. Understand which administrative tasks need to be performed to maintain AD DS and DNS
6.3. Understand the difference between online and offline maintenance tasks
6.4. Identify the domain controllers performing operation master roles
6.5. Transfer and seize operation master roles
6.6. Understand domain and forest function levels
6.7. Raise the domain function level of a domain and/or forest
6.8. Identify capabilities added by each function level
7.1. Identify the roles of sites and subnets
7.2. Describe the process with which a client locates a domain controller
7.3. Configure sites and subnets
7.4. Manage domain controller server objects in sites
7.5. Define the purpose of the global catalog
7.6. Configure domain controllers as global catalog servers
7.7. Implement site links and site costs to manage replication between sites
7.8. Use administrative tools to report, analyze and check the health of replication between sites
7.9. Understand and explain trust relationships between domains
7.10. Configure, administer, and secure trust relationships
8.1. Understand when to use AD Lightweight Directory Service (LDS)
8.2. Understand how to install and manage AD LDS
8.3. Understand when to use AD Certificate Services (CS)
8.4. Understand how to install and manage AD CS
8.5. Explain the components of a Public Key Infrastructure (PKI)
8.6. Understand how to install and manage a Certificate Authority (CA), certificate enrollments, and certificate revocations
8.7. Understand the components that make up AD Rights Management Services (RMS)
8.8. Plan for, install, configure and manage AD RMS
8.9. Understand the components that make up AD Federation Services (FS)
8.10. Plan for, install, configure and manage AD FS

Instructional Methods
This course teaches students through lectures, demonstrations, and instructor-led discussions. Students are expected to complete required reading assignments prior to each lecture. Students are expected to complete assigned homework during the week that follows that topic’s lecture and to arrive prepared to discuss homework at the beginning of the following week’s class.
Course Policies

Attendance: You are expected to attend classes regularly; unexcused absences may result in a failing grade. You are responsible for coordinating absences and the possibility of arranging to make up missed work with the instructor prior to the absence.

If an unforeseen circumstance prevents you from attending class you are expected to contact the instructor via email or phone prior to the start of the next class.

If you are required to participate in either (a) military or (b) UAF-sponsored activities that will cause you to miss class, you must notify your instructor as soon as possible of your absence. You must notify your instructor of all scheduled UAF-required absences for the semester (e.g., travel to athletic events) during the first week of classes.

Late Assignments: Late assignments will not be accepted unless arranged with the instructor.

Missed Exams: There will be no opportunity to make up exams except for pre-arranged absences with the instructor. Make-up exams must be completed prior to the next class meeting from which the exam was given.

Important Dates: Check the UAF Academic Calendar for important dates related to fee payment, class registration and last day to drop courses. The calendar can be viewed online at: http://www.uaf.edu/catalog/current/acad_calendar.html

Plagiarism/Academic integrity: Plagiarism and cheating are serious offenses and may result in failure on exams, papers, projects, or the course.

Support Services

The TVC Student Assistance and Advising Center provides services that contribute to a successful learning experience and transition to a career. TVC Student Assistance and Advising Center staff recognizes the unique concerns of adult and returning students. Services include pre-admission advising, academic assessment and placement advising, financial aid information and application, and assistance with choosing a major. Students can receive ongoing academic advising, degree planning and assistance with course selections.

Services are available by appointment and on a walk-in basis. Appointments can be scheduled by calling 455-2800 or students can go to the UAF Tanana Valley Campus Center, 604 Barnette Street, room 110.

Disability Services

The UAF Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials. The instructor will work the Office of Disability Services to provide reasonable accommodations to students with disabilities that have been documented through the UAF Office of Disability Services. Information about available services is available online at http://www.uaf.edu/disability/. The office can be reached by phone at 474-7043 or students can go to 203 WHIT on the UAF main campus.
Evaluation:
Final grades are calculated from the points earned in the following areas:

**Chapter Quizzes** 30%
Chapter Quizzes are designed to reinforce and measure retention of information covered in reading assignments and in lecture. Chapter quizzes will be available at the class Blackboard site must be completed outside of class the week following the completion of the class lecture for that chapter.

**Chapter Review Questions** 25%
Review questions at the end of each chapter related to planning, implementing, and administering specific directory service topics are designed to promote critical reflection. Students will write up their answers in a Word document and post the completed document to Blackboard.

**Final Exam** 45%
The final exam will consist of two parts. Part 1 is a comprehensive written exam designed to provide an assessment of the student’s use and retention of course material covered in weeks 1-14. Part 2 is a scenario-based problem designed to provide an assessment of the student’s ability to apply the skills and knowledge covered in weeks 1-14 of the course.

Letter grades for the course will be determined as follows and will reflect the *Grading System and Grade Point Average Computation* policy stated in the current UAF Catalog.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A+</td>
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<tr>
<td>A</td>
<td>96.9–93%</td>
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<tr>
<td>A-</td>
<td>92.9–90%</td>
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<td>B+</td>
<td>89–87%</td>
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<td>D-</td>
<td>62.9–60%</td>
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<td>less than 60%</td>
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Withdrawal – Course withdrawals may be either student-initiated or faculty-initiated. A faculty-initiated withdrawal will be initiated if you don't meet prerequisites for a course or if you haven't participated substantially in the course. An attempt will be made to contact students prior to initiating a faculty-initiated withdrawal. It is the responsibility of the student to maintain current contact information (phone number and email address) within UA Online system.

Incomplete - An incomplete is a temporary grade used to indicate that the student has satisfactorily completed (C or better) the majority of work in a course but for personal reasons beyond the student’s control, such as sickness, has not been able to complete the course during the regular semester. An incomplete will only be assigned in a case when the student is current in the class until at least the last three weeks of the course. Negligence or indifference is not acceptable reasons for an “I” grade. If an incomplete assigned, it must be made up within one year or it will automatically be changed to an “F” grade.
Course Calendar:
The following course calendar provides a weekly schedule of major course topics, reading assignments, homework assignments, and quizzes and exams. Students are expected to complete the reading assignment prior to the week in which the assignment is listed. Homework assignments are to be completed outside of schedule class time during the week after the course topic has been covered in class. Students should be prepared to discuss homework at the beginning of the following class.

Week 1 – Class 1
Reading Assignment: Chapter 1 Installation
Topics: Overview of Active Directory (AD), Identity and Access; AD Components; Creating Domain Controllers (DC) within Explorer shell interface; Creating DCs within Server Core command line interface; Removing DCs using Explorer shell or Server Core interface.
Review Questions: Review Questions from Chapter 1
Chapter Quiz: Chapter 1 Quiz on Blackboard

Week 2 – Class 2
Reading Assignment: Chapter 2 Administration
Topics: Microsoft Management Console (MMC) Interface; AD Administration Tools; Running Administrative Tools with Alternate Credentials; Creating Custom MMC Tools; Saving and Distributing Custom Consoles; Creating Objects in AD—Organizational Units (OUs); users, groups, computers; Creating and Saving Queries for AD Objects; Understanding Delegation; Understanding and Managing AD Object Permissions; Delegation Implementation Methods; OU Structures the Support Delegation
Review Questions: Review Questions from Chapter 2
Chapter Quiz: Chapter 2 Quiz on Blackboard

Week 3 – Class 3
Reading Assignment: Chapter 3 Users
Topics: Overview of User Accounts; User Accounts Creation Methods—MMC and command line tools; Use the Active Directory Users and Computers (ADUC) MMC to Create and Manage Users Accounts; Using Windows PowerShell to Create and Import User Accounts; Using VBScript to Create User Accounts; Manage User Account Name and Attributes; Administering User Accounts
Review Questions: Review Questions from Chapter 3
Chapter Quiz: Chapter 3 Quiz on Blackboard

Week 4 – Class 4
Reading Assignment: Chapter 4 Groups
Chapter 5 Computers
Topics: Purpose and Function of Groups; Group Types and Scopes; Creating and Managing Groups; Using ADUC, Command Line Utilities; PowerShell; and VBScript to Create and Manage Group Accounts; Default Groups; Special Identities; Joining Computers to a Domain; Prestaging Computer Objects; Using ADUC, Command Line Utilities; PowerShell; and VBScript to Create and Manage Computer Accounts
Review Questions: Review Questions from Chapter 4 and 5
Chapter Quiz: Chapter 4 and 5 Quiz on Blackboard
Week 5 – Class 5  
**Reading Assignment:** Chapter 6 Group Policy Infrastructure  
**Topics:** Group Policy Overview; Group Policy Objects (GPOs); Creating, Linking, and Editing GPOs; GPO Inheritance and Precedence; Blocking and Enforcing a GPO Link; Filtering GPOs; Optimizing GPO Processing; Resultant Set of Policy (RSoP); Policy Event Logs  
**Review Questions:** Review Questions from Chapter 6  
**Chapter Quiz:** Chapter 6 Quiz on Blackboard

Week 6 – Class 6  
**Reading Assignment:** Chapter 7 Group Policy Settings  
**Topics:** Using GPOs to: Delegate Administration of Computers; Manage Security Settings throughout a Domain; Install and Remove Software; Implement Audit Policies throughout a Domain.  
**Review Questions:** Review Questions from Chapter 7  
**Chapter Quiz:** Chapter 7 Quiz on Blackboard

Week 7 – Class 7  
**Reading Assignment:** Chapter 8 Authentication  
**Topics:** Configure Password and Lockout Policies for a Domain; Auditing Authentication; Account Logon vs. Logon Events; Authentication and Domain Controller Placement in a Branch Office  
**Review Questions:** Review Questions from Chapter 8  
**Chapter Quiz:** Chapter 8 Quiz on Blackboard

Week 8 – Class 8  
**Reading Assignment:** Chapter 9 Integrating Domain Name System with AD DS  
**Topics:** Domain Name System Overview; Installing the DNS Service; Configuring DNS; DNS and DHCP Considerations; Integrating DNS with AD DS; Application Directory Partitions; DNS Server Administration  
**Review Questions:** Review Questions from Chapter 9  
**Chapter Quiz:** Chapter 9 Quiz on Blackboard

Week 9 – Class 9  
**Reading Assignment:** Chapter 10 Domain Controllers  
**Topics:** Domain Controller (DC) Installation Methods—Windows Interface and Unattended Installation Answer Files; Creating Child Domain; New Tree; and New Forest DCs; Operation Master Roles—Identifying, Managing, Placing, and Transferring; Operation master Failures; Seizing Operation Master Roles and Returning to Original Holder; SYSVOL Folder and SYSVOL Replication  
**Review Questions:** Review Questions from Chapter 10  
**Chapter Quiz:** Chapter 10 Quiz on Blackboard

Week 10 – Class 10  
**Reading Assignment:** Chapter 11 Sites and Replication  
**Topics:** Sites, Subnets, and Physical Network Infrastructure; Planning and Defining Sites Subnets; Domain Controller Location; Global Catalog (GC) and GC Server; Active Directory Replication; Connection Objects; Knowledge Consistency Checker; Intrasite Replication; Site Links; Bridgehead Servers; Monitoring Replication  
**Review Questions:** Review Questions from Chapter 11  
**Chapter Quiz:** Chapter 11 Quiz on Blackboard
Week 11 – Class 11
Reading Assignment: Chapter 12 Domains and Forests
Topics: Domain Function Levels; Forest Function Levels; Raising Function Levels; Forest and Domain Structure; Moving Objects Between Domains and Forests; Trust Relationships; Authentication Protocols and Trust Relationships; Securing Trust Relationships
Review Questions: Review Questions from Chapter 12
Chapter Quiz: Chapter 12 Quiz on Blackboard

Week 12 – Class 12
Reading Assignment: Chapter 13 Directory Business Continuity
Topics: AD DS Administration Categories; AD DS Administration Tools; Online and Offline Maintenance; Built-in Directory Protection Measures; AD Backup and Restore Procedures; Managing System Resources; Windows System Resource Manager
Review Questions: Review Questions from Chapter 13
Chapter Quiz: Chapter 13 Quiz on Blackboard

Week 13 – Class 13
Reading Assignment: Chapter 14 Active Directory Lightweight Directory Services Chapter 15 Active Directory Certificate Services and Public Key Infrastructure
Topics: AD Lightweight Directory Service (LDS) Overview; AD LDS Installation Methods; AD LDS Tools; AD LDS Instances; Public Key Infrastructure (PKI) Overview; AD Certificate Service (CS); Planning a PKI Environment and AD CS Servers; Installation Methods; Configuring and Managing AD CS; Revocation Configuration; Protecting AD CS Configuration
Review Questions: Review Questions from Chapter 14 and 15
Chapter Quiz: Chapter 14 and 15 Quiz on Blackboard

Week 14 – Class 14
Reading Assignment: Chapter 16 Active Directory Rights Management Services Chapter 17 Active Directory Federation Services
Topics: AD Rights Management Service (RMS) Overview; AD RMS Installation and Management Methods; Configuring and Managing AD RMS; AD Federation Services Overview; AD FS Installation Methods; Configuring and Managing AD FS
Review Questions: Review Questions from Chapter 16 and 17
Chapter Quiz: Chapter 16 and 17 Quiz on Blackboard

Week 15 – Class 15
Final Exam: The final exam will consist of two parts. Part 1 is a comprehensive written exam designed to provide an assessment of the student’s use and retention of course material covered in weeks 1-14. Part 2 is a scenario-based problem designed to provide an assessment of the student’s ability to apply the skills and knowledge covered in weeks 1-14 of the course.
Part 1 of the final exam will be administered in during the first 60 minutes of class. Students will begin Part 2 upon completion of their written final exam.