# "WBUlogo"

Virtual Campus

School of Business

# 2. UNIVERSITY MISSION STATEMENT

Wayland Baptist University exists to educate students in an academically challenging, learning-focused and distinctively Christian environment for professional success, lifelong learning, and service to God and humankind.

# 3. COURSE NUMBER & NAME:

MISM 5341-VC01, Advanced Computer Networking and Data Management

# **4. TERM**:

Summer 2018

# **5. INSTRUCTOR**:

Dr. Sammy J. Van Hoose

# **6. CONTACT INFORMATION**:

Cell phone: 806-777-0569 (Please do not call this number between 9:00 P.M. and 9:00 A. M. unless it is an emergency)

WBU Email: VanHoose@WBU.EDU (Email addresses are not case sensitive)

# **7. OFFICE HOURS, BUILDING & LOCATION**:

 I am Online. Office Hours are 9:00 A.M. to 9:00 P. M. Monday through Saturday. I keep minimum hours on Sunday. You may reach me via email at VanHoose@WBU.EDU, by text message at 806-777-0569 or by calling 806-777-0569. I prefer email or as a secondary means text message. If you have an emergency, please call me then follow up with an email when you have a chance.

# **8. COURSE MEETING TIME & LOCATION**:

Online Assignments, quizzes, exams, etc. will have due dates of midnight (11:59 P.M., Central, -6, time zone, on the Saturday after the assignment is made. Assignments, etc. will not be due on Sundays.

# **9. CATALOG DESCRIPTION**:

Benefits of using computer networks, technology associated with them, and how to design, implement, and manage them. Fundamentals of telecommunications, network topologies, network design strategies, and the implementation of networks into organizations, including a semester project allowing students to design a network application.

# 10. PREREQUISITE:

MISM 5306

# **11. REQUIRED TEXTBOOK AND RESOURCE MATERIAL**:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **BOOK** | **AUTHOR** | **ED** | **YEAR** | **PUBLISHER** | **ISBN#** | **UPDATED** |
| Data Communication and Computer Networks  | White | 8th | 2016 | Cengage Learning  | 9781-30511-6634 | 4/13/15 |

"Wayland Baptist University has partnered with RedShelf to bring Inclusive Access, which is a digital copy of the required textbook available on Blackboard day one of class.  The prices are very competitive with the market and in most cases below the standard cost.  The price of the textbook will be billed to your student account.  To check the price of the textbook please locate your required course material at <https://bookstore.wbu.edu>.  Once you access the textbook it will ask you if you would like to opt-out.  If you choose NOT to use this version, you MUST opt-out or you will be charged and refunds are not available."

# 12. OPTIONAL MATERIALS

# **13. COURSE OUTCOMES AND COMPETENCIES**:

* Demonstrate the differences between various communications media
* Demonstrate the relative advantages and disadvantages of communication media
* Know the different communication and networking models
* Setup and maintain networking systems

# 14. ATTENDANCE REQUIREMENTS:

As stated in the Wayland Catalog, students enrolled at one of the University’s external campuses should make every effort to attend all class meetings. All absences must be explained to the instructor, who will then determine whether the omitted work may be made up. When a student reaches that number of absences considered by the instructor to be excessive, the instructor will so advise the student and file an unsatisfactory progress report with the campus executive director. Any student who misses 25 percent or more of the regularly scheduled class meetings may receive a grade of F in the course. Additional attendance policies for each course, as defined by the instructor in the course syllabus, are considered a part of the University’s attendance policy.

# **15. STATEMENT ON PLAGIARISM & ACADEMIC DISHONESTY**:

Wayland Baptist University observes a zero tolerance policy regarding academic dishonesty. Per university policy as described in the academic catalog, all cases of academic dishonesty will be reported and second offenses will result in suspension from the university.

# **16. DISABILITY STATEMENT**:

In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university. The Coordinator of Counseling Services serves as the coordinator of students with a disability and should be contacted concerning accommodation requests at (806) 291-3765. Documentation of a disability must accompany any request for accommodations.

# **17. COURSE REQUIREMENTS and GRADING CRITERIA**:

**(Include information about term papers, projects, tests, presentations, participation, reading assignments, etc. and how many points or what percentage of the final grade each of these components or assignments is worth)**

In this class, students will be evaluated according to performance in the following categories:

* Two exams (Mid-term and Final)
* Weekly quizzes
* Assignments
* Research Paper
* Course Participation

The breakout for grades is as follows:

* Exams 30%
* Assignments 30%
* Quizzes 10%
* Research Paper 20%
* Course Participation 10%

Grade achievement levels are as follows:

Grade Range

A 90%+

B 80-89%

C 70-79%

D 60-69%

F 0-59%

**17.1 Include Grade Appeal Statement:** “Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Vice President of Academic Affairs/Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.”

**18. TENTATIVE SCHEDULE**: (Calendar, Topics, Assignments)

(Note: ALL weeks’ end on Saturday. I will not assign work to be completed on Sunday

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|    | **COURSE OUTLINE**  |    |  |  |
| Week Ending | TOPIC  | READING ASSIGNMENT  | NOTES | WRITTEN ASSIGNMENT |
| **1****Nov. 12-17** | Introduction | Chapter 1 |  | See Course Content in Blackboard. |
| **1****May 27 – June 1** | Fundamentals of Data and Signals | Chapter 2 |  | See Course Content in Blackboard. |
| **2****June 3 - 8** | The Media: Conducted and WirelessMaking Connections | Chapter 3Chapter 4 |  | See Course Content in Blackboard. |
| **3** **June 10 - 15** | Making Connections Efficient: Multiplexing and CompressionErrors, Error Detection, and Error Control | Chapter 5Chapter 6 |  | See Course Content in Blackboard. |
| **4****June 17 - 22** | Local Area Networks – The Basics | Chapter 7 | **The Mid-term exam will be online and must be completed and submitted by 11:59 P.M. (midnight) June 22, 2019.** | See Course Content in Blackboard. |
| **5****June 24 - 29** | Christmas Break |  |  | See Course Content in Blackboard |
| **6**July 1 – 6  | Local Area Networks – Part II | Chapter 8 | **Research paper draft due before midnight July 6, 2019** |  See Course Content in Blackboard |
| **7****July 8 - 13** | Introduction to Metropolitan Area Networks and Wide Area Networks | Chapter 9 |  | See Course Content in Blackboard |
| **8****July 15 - 20** | The Internet | Chapter 10 | **Research paper is due before midnight (11:59) P.M July 20, 2019** | See Course Content in Blackboard |
| **9****July 22 – 27** | Voice and Data Delivery Networks | Chapter 11 |  |  |
| **10****July 29 – August 3** | Network Security | Chapter 12 |  |  |
| **11****August 5 - 10** |  **Network Design and Management Final Exam** | Chapter 13 |  The Final exam will be online and must be completed and submitted by 11:59 P.M. (midnight) August 10, 2019 | **Final Exam** |

# 19. ADDITIONAL INFORMATION

**General Information:**

This syllabus contains a general overview of the course only. It should NOT be considered as a substitute for reading and understanding all the pages of this web site.

**The subject of ALL your email shall be MISM 5341 VC01 Summer 2018 and include your first and last names in the email body. Email without this information as the Subject line will not be read or responded to.**

***Once you have read and understood everything contained in the syllabus, you are required to submit an email containing all of the following:***

**1. Your Full Name**

**2. Term: Summer 2018**

**3. Course Number and Section (MISM5341VC01)**

**4. Date**

**5. A Statement of Understanding as follows:**

**"I have read the syllabus for this course. I understand the course requirements and procedures. Since grades are an indicator of personal effort and performance, I understand that it is my responsibility to earn the grade I desire in this class." (*This statement must be verbatim*.)**

**Additional Statements:**

“This class will adhere to zero tolerance for using someone else’s work as your own.”

You may **NOT** submit a paper you submitted in another course for grade.

“Students are responsible for reading, understanding, obeying, and respecting all academic policies, with added emphasis being placed upon academic progress policies, appearing in the Wayland Baptist University Academic Catalog applicable to their curriculum and/or program of study.”

**Posting of Grades**: Final grades will be posted in IQ Web and Blackboard.

**Teaching Methods**:
1. Assignments: Also look at **Guidelines for Homework Assignments** listed below.

Subjects are chosen so that they will not be able to be answered adequately in not less than 300 words and will be consistent with the APA style of writing. Failure to provide References and Citations will result in a grade of “0” for the Assignment. Decision on the adequacy of an answer is the instructor's. It is not subject to debate.

Assignments are graded on a 100-point scale. Assignments and Quizzes are due by midnight (11:59 P.M. Central Time) the first Saturday after the assignment is made. They will be considered late, after midnight of date due, and a deduction of 20 points per week, or a portion of a week, will be taken.

**Assignments will be submitted through Course Content in Blackboard. The file name WILL be Last Name and Assignment number. The way to do this is to create the file and save it. Then attach the file to the appropriate place in Blackboard. Assignments copied and pasted or created in Blackboard will be graded as such and no consideration will be made for format changes to your documents.**

**Assignments not submitted through Blackboard, as indicated above will not be accepted.**

**If you have not done so I suggest you make sure your Wayland email account is working correctly. If I send you an email it will be to your email account. If you send me an email from your private email account, I will respond to your private email account. Be advised that your Wayland email account is the preferred email account to use for this course.**

**If wish to communicate with me please do so by email at** **VanHoose@wbu.edu** **(I do NOT return phone calls). If you absolutely must talk to me on the phone call 806-777-0569 (please do not call this number between the hours of 9:00 P.M. and 9:00 A.M. or on Sunday unless it is an emergency.**

2. Exams:

Exams will be presented on Blackboard. There will be a Mid-Term and a Final Examination. Each will cover the material listed on the schedule. The final is NOT comprehensive. Exams are administered online in Blackboard and do not require proctors. You will receive an immediate feedback on your score on the objective portion of the exam, but the essays will have to be graded by me on an individual basis whereupon you will receive the total exam score.

**Keep a copy of your work until the end of the course; recording errors may occur.**

**Guidelines for Homework Assignments**

**Goals:**

Success in your career will depend greatly on your written and oral communication skills. Our school recognizes the need for students to develop proficiency in these skills, and requires all students to submit a research paper and/or provide an oral presentation in each class in this department.

**Format:**

The homework assignments **will consist of *not less than 1 page* (standard double-spaced with 1 inch margins all around) of TEXT in length *(Title Pages, Tables of Content, figures, pictures, graphs, and references will not be counted as text.*  *Title Page is required. Table of Contents is not required; an Abstract is not required.)* At this point, let me remind you that if you use Microsoft Word to produce your paper, its default is 1.25 inches, and you need to change it to one inch.  Use only 12 point Times New Roman font on your papers. This will keep paper length consistent for everyone.  Since a word processor is likely to be used in preparation of the paper, it is expected that there will be NO spelling errors. I will caution you that ‘Spell Check’ will not catch words spelled correctly but not in the correct context. Accuracy is important. Grammar and spelling errors will be penalized at 1 point per occurrence. Clarity can affect understanding. If your work is difficult to understand, the content is questionable.**

**Proper credit for references used will be included and will be cited within the paper as well as in a *References page*. There will be at least two (2) outside references used (the text book does not count as one). In other words, you will have to do some research to back up your conclusions.**

**Note: The APA style of writing has a References page. It does not have a Works Cited page or Bibliography.**

**Papers will be consistent with the APA style manual format. (The requirement for APA style of writing will be worth at least 30% of your grade.)**

**In the Main Menu section of Blackboard is a rubric that will be used to grade Research Paper. The rubric will also be used for homework assignments.**

**There is also a link to the Wayland Library (LRC) and one to the Wayland Writing Center if you need help. I am also available via email.**

**Topics:**

**As listed in Assignments in Blackboard.**

**Attribution:**

**All works and illustrations used in your paper must be cited; this means crediting the source where you found the information you used to support your work. If you fail to give credit for copyrighted information you present as your own work; that constitutes plagiarism, and will be penalized by a zero for the project. ALL statements of fact MUST be supported by references and citations.**

**NOTE: An author must be a person and the date is the year of publication.**

**Citations should be in the format: (Author(s), date) or if for a quote (Author(s), date, page). If the Reference is no longer than one (1) page the citation for a quote should be (Author(s), date, paragraph). If citations are not correct a minimum of 10% will be deducted.**

**References – This is the source material you used to support your research project. Sources without an author and/or date should not be used. Look in the APA manual or in the Wayland Writing Center/Research and Writing Guides. If References are not correct a minimum of 10% will be deducted.**

**If neither references nor citations are given for your research for Homework Assignments your score will be 0 for the Assignment.**

**NOTE 1: References without an author (person) and a date (year of publication) will not be accepted (This means references must have both).**

**NOTE 2: ALL weeks’ end on Saturday. I will not assign work to be completed on Sunday. All assignments and quizzes for each week are due by 11:59 P.M., midnight, on the Saturday ending the week. Exams are due on the dates scheduled.**

**Guidelines for Research Papers**

**Goals:**

**Success in your career will depend greatly on your written and oral communication skills. Our school recognizes the need for students to develop proficiency in these skills, and requires all students to submit a research paper and provide an oral presentation in each class in this department.**

**Format:**

**The Research Paper will consist of *not less than 10 pages* (standard double-spaced with 1 inch margins all around) of TEXT in length *(Title Pages, Tables of Content, figures, pictures, graphs, and references will not be counted as text.*  *Title Page is required. Table of Contents is not required; an Abstract is required.)* At this point, let me remind you that if you use Microsoft Word to produce your paper, its default is 1.25 inches, and you need to change it to one inch.  Use only 12 point Times New Roman font on your papers. This will keep paper length consistent for everyone.  Since a word processor is likely to be used in preparation of the paper, it is expected that there will be NO spelling errors. I will caution you that ‘Spell Check’ will not catch words spelled correctly but not in the correct context. This is not an English class. However, accuracy is important. Grammar and spelling errors will be penalized at 1 point per occurrence. Clarity can affect understanding. If your work is difficult to understand, the content is questionable.**

 **Proper credit for references used will be included and will be cited within the paper as well as in a *References page*. There will be at least eight (8) outside references used (the text book does not count as one). In other words, you will have to do some research to back up your conclusions.**

**Papers will be consistent with the APA style manual format. (The requirement for APA style of writing will be worth at least 30% of your grade.)**

**In the Course Info/Syllabus section of Blackboard is a rubric that will be used to grade the Research Paper.**

**There is also a link to the Wayland Library (LRC) and one to the Wayland Writing Center if you need help. I am also available via email.**

**Topics:**

**Any topic relevant to the course subject matter is acceptable.**

**Drafts:**

**Drafts of your paper may be submitted in Safe Assign (Draft) in the Course Content of Blackboard. I will comment on the paper and return it to you for corrections.**

**Attribution:**

**All works and illustrations used in your paper must be cited; this means crediting the source where you found the information you used to support your work. If you fail to give credit for copyrighted information you present as your own work; that constitutes plagiarism, and will be penalized by a zero for the project. This includes any paper that you may have written and submitted in any other class for grade. ALL statements of fact MUST be supported by references and citations.**

**NOTE: An author must be a person and the date is the year of publication.**

**Citations should be in the format: (Author(s), date) or if for a quote (Author(s), date, page). If the Reference is no longer than one (1) page the citation for a quote should be (Author(s), date, paragraph). If citations are not correct a minimum of 10% will be deducted.**

**References – This is the source material you used to support your research project. Sources without an author and/or date should not be used. Look in the APA manual or in the Wayland Writing Center/Research and Writing Guides. If References are not correct a minimum of 10% will be deducted.**

**If neither references nor citations are given for your research for Homework Assignments your score will be 0 for the Assignment.**

**NOTE: Sources without an author (person) and a date (year of publication) will not be accepted.**