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Textbooks:
2. A book selected by the student and approved by the instructor. (See Assignment Packet below for details).

Catalog Description: 3 Credit hours. Requisites: Completion of all other INT degree core courses or its equivalent with PERM. This is an advanced course that studies information network theory through case study, application, and on-site observation. Emphasis is placed on studying actual information networking problems encountered in organizations and communities. Field work and compilation of the student's portfolio is required as part of the course.

Goals and Objectives: This course strives to build an advanced understanding of the world of information. Students will continue to develop career and management skills vital to career success in the information/knowledge economy. Students will also synthesize the knowledge and skills in Information Networking accumulated in studying toward their degree. To demonstrate this synthesized knowledge, students will complete a number of different activities including the creation and development of a capstone project utilizing their skills to gather, analyze and create an information product or system. This project is designed to assist students in honing their project management skills. As such this will be an actual (not a hypothetical) project that you implement and a plan that you execute. In order to meet the objectives in observing project management challenges and strategies, this must be a project you actually complete and can document.

Tentative Course Outline:
All assignments are due on the indicated day of the corresponding week no later than 11PM CST.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>8/19</td>
<td>Preview Course on Blackboard. Reading: Review Sample Capstone Project Proposals – Docking Institute and Nex-Tech Proposals on Blackboard. Begin thinking about possible projects and discuss potential projects on Discussion Board. Bounce ideas off your classmates, and exchange preliminary feedback.</td>
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<tr>
<td>8/26</td>
<td>Reading &amp; Response: Chapters 1-3 (due on Sunday)</td>
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| 9/2  | Reading & Response: Chapters 4-6 (due on Sunday)  
Select Future Book- Submit For Approval (Bb’s Discussion Board) |
| 9/9  | Reading & Response: Chapters 7-9 (due on Sunday) |
| 9/16 | Reading & Response: Chapters 10-12 (due on Sunday) |
Capstone Project Proposals Due on Thursday

9/23 Reading & Response: Chapters 13-15 (due on Sunday)
9/30 Reading & Response: Chapters 16-18 (due on Sunday)
10/7 Work on your future book, catch up if you need to!
10/14 Future Book Summaries due on Sunday – Submit to instructor via Safe Assignment. Future Book Presentations – Post your 10-15 minute presentation over your book to Discussion Board.
10/21 Work on Capstone Project and Presentation.
10/28 Work on Capstone Project – draft capstone presentations due no Sunday. This is not required, but if you want feedback, you must submit by this date.
11/4 INT Post-Test due on Sunday.
11/18 Work on Capstone Project.
11/25 Fall Break
12/2 Finalize completion of project, documentation, and presentation. Projects posted to Blackboard and INT Website (make arrangements through Gary Hoffman) by Sunday.
12/9 Finals Week. No exam for this course.

Course Assignments & Grading:

<table>
<thead>
<tr>
<th>Assignment</th>
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<tbody>
<tr>
<td>Million Dollar Consulting Reports</td>
<td>18</td>
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<tr>
<td>Future Book Written Summary</td>
<td>10</td>
</tr>
<tr>
<td>Future Book Presentation</td>
<td>5</td>
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<tr>
<td>Next Future Books Essay</td>
<td>10</td>
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<tr>
<td>INT Post-Test</td>
<td>6</td>
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<tr>
<td>Class Participation &amp; Discussion</td>
<td>6</td>
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<tr>
<td>Capstone Proposal Report</td>
<td>10</td>
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<tr>
<td>Capstone Proposal Presentation</td>
<td>5</td>
</tr>
<tr>
<td>Final Capstone Project Report</td>
<td>15</td>
</tr>
<tr>
<td>Final Capstone Project Presentation</td>
<td>15</td>
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Grading Policies:

- **Late Work**: All assignments must be submitted in Blackboard on the due time by 11PM CST of the indicated date. Late assignments will not be accepted.
- **Make-Ups**: No matter what the excuse is, there will be given no make-up to any of the assignments of this course.
- **Contesting**: Grades can be contested during a two-week period from the time that they were announced. After such period is elapsed, grades may not be contested.

Grade Assignment:

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<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>F</td>
<td>&lt; 60%</td>
</tr>
<tr>
<td>D</td>
<td>60% ≤ D &lt; 70%</td>
</tr>
<tr>
<td>C</td>
<td>70% ≤ C &lt; 80%</td>
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<tr>
<td>B</td>
<td>80% ≤ B &lt; 90%</td>
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<tr>
<td>A</td>
<td>A ≥ 90%</td>
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Students with Disabilities: Any student who desires accommodations for special needs should discuss this with the course instructor by the second week of class.
Academic Misconduct: We really do not expect it, so please do not disappoint us! However, any form of cheating will be penalized and may result in failing the course or eviction from the university.

Assignments and Class Activities:
Students will participate in a variety of activities that will lead them to a deeper understanding and appreciation of the world of information. Students will read the assigned book, will prepare journal summaries and class discussion questions. Students will also read and create a presentation over a book of their selection. During the last several weeks of the course, students will be heavily involved in preparing their capstone projects and reading. To facilitate this, other assignments will be reduced dramatically during this time.

- Million Dollar Consulting – Alan Weiss
The purpose of selecting this book is to provide students with valuable information about the concepts, tools, and effective execution of consulting. Most Capstone students cast themselves as consultants who propose a project and carry it out during the semester. Therefore, this course appears to be the relevant one for inclusion of information on consulting.

Weiss is a “management consultant.” Most INT students will not become management consultants. However, at some point in your career, you are likely to use the services of a consultant. In effect this is what media production houses that produce audio and video are. Media personalities who freelance doing voiceovers and special projects are consulting. Media consultants to businesses and politicians are clearly in the consulting business. Ad agencies are in effect consulting groups. Independent web developers are consultants. Consulting is what e-commerce experts do. Many Cisco Certified Networking Professionals consult for hundreds of dollars an hour as they solve complex network problems. Network security and information security consulting is a rapidly growing business. This book provides a number of general rules that are applicable to most consultants and consultancy practices. Much of this information is excellent and is very valuable.

Million Dollar Consulting Assignments: First, you will read each chapter as assigned. Read it actively, thinking of how you might apply it to your own professional career. One of the primary goals of advanced professional education is to encourage students to synthesize and to apply knowledge – not to memorize it. You will demonstrate you are doing this by completing the following. While you are responsible for multiple chapters each week, submit each chapter as a stand-alone assignment. In other words, don’t combine 4 chapters into a single document. You’ll need to follow these steps for each chapter, and submit each chapter in its own forum.

1. First, decide what type of potential consulting firm you may be part of e.g. media production, web, networking, security, or an integrated IT company. In a word document, identify the specific type of consulting firm of which you may be a part. Proceed to step two.
2. For each chapter, you will then identify two suggestions or rules that Weiss presents that would be useful for your business. In the same document as step one explain how these can be used and why they are valuable. You only need to provide a paragraph or two for each, but a single short sentence will clearly be insufficient. Proceed to step three.
3. Next, in the same document as before briefly describe one item from each chapter that you either disagree with or that you do not believe is relevant to your chosen profession. Post the created word document to the appropriate discussion board and proceed to step 4.
4. Develop two questions concerning each chapter for class discussion that you would like greater clarification on or which you believe would be valuable to get the opinions of your classmates and/or professor. Post your questions to the appropriate discussion board on Blackboard.

Please be certain to include the chapter number(s) and your name in the assignment document from Steps 1-3. For readability, please double space your answers. Post your assignment document to the Safe Assignment on Blackboard. Be certain to include a separate thread for your questions. Be prepared to discuss and respond to the material posted. Participation in class discussion is important (see Class Discussion below).

- Future Books
One of the purposes of this course is to help you as students look ahead at the evolving and rapidly changing world
that you will be working in. In some cases, looking at the history of a portion of the field or reading a biography of a successful person in the INT field is acceptable. This assignment is designed to expose all of us to a wide range of valuable books and information. Each student will select one book and will read and summarize this book in a written summary that will be submitted to the instructor via Safe Assignment on Blackboard. Along with the written summary, each student will prepare a 10-12 minute multi-media (narrated) presentation which will be posted to the discussion board on Blackboard. Please note that the items that must be included in the written summary and the multi-media presentation are listed below.

Find a book that you will enjoy reading. It may focus on media, telecommunications, the web, information, information technology or changing roles of employees or management in the workplace. The instructor must approve the book. Only one student may select each book. There will be a discussion forum in which you should state your name and your selection. In the event two students select the same book, the second to sign up will need to make a new selection.

Sample books include:
- The Greatest Business Decisions of All Time (Fortune Magazine Editors & Harnish)
- The 3 Power Values: How Commitment, Integrity, and Transparency Clear the Roadblocks to Performance, (Gebler)
- The Big Picture (Cope)
- The Enemies of Excellence (Saliccioli)
- Unusually Excellent: The Nine Skills Necessary for the Practice of Great Leadership (Hamm)
- Coach Yourself to Win: 7 Steps to Breakthrough Performance on the Job (Guttan)
- Getting Organized in the Google Era (Merrill & Martin)
- How to Measure Anything (Hubbard)
- Think Twice: Harnessing the Power of Counterintuition (Mauboussin)
- Start with Why: How Great Leaders Inspire Everyone to Take Action (Sinek)
- Get the Job You Want Even When No One is Hiring (Myer)
- The Leader's Way: The Art of Making the Right Decisions in Our Careers (Dalai Lama)
- Good to Great in 30 Minutes (Collins)
- Cheaters Never Win (Huntsman)
- The Icarus Deception: How High Will You Fly (Godin)
- Reinventors: How Successful Companies Pursue Radical Continuous Change (Jason Jennings)
- One Simple Idea for Startups and Entrepreneurs: Live Your Dreams and Create Your Own Profitable Company (Key)
- Poke the Box (Godin)
- Outliers (Gladwell)
- Good Business: Leadership, Flow and the Making of Meaning (Csikszentmihaly)
- Steve Jobs (Isaacson)
- Stop Acting Rich and Start Living Like a Real Millionaire (Stanley)
- All Marketers are Liars (Godin)
- Delivering Happiness: A Path to Profits, Passion and Purpose (Hsieh)
- The Zappos Experience: 5 Principles to Inspire, Engage, and WOW (Michelli)
- The Success Principles: How to Get From Where You are to Where You Want to Be (Canfield & Switzer)
- The 4-Hour Work Week (Ferris)

On the date specified in the course schedule, all students will turn in their written summary and post their Presentation to the Class Discussion Board. Students will then review presentations of classmates on Blackboard, asking questions and providing feedback. The written summary will include:

1. Author, Title, Publisher, and Year Published in proper citation form. 5 pts
2. An abstract of the book in two hundred words or less – in your own words – not a reviewer on the net! 5 pts
3. A minimum of a one page summary per chapter. 25 pts
4. What was the author’s central theme? 5 pts
5. What three propositions, arguments, or theories that the author suggests do you agree with? Why do you agree?
   Explain in detail and provide support for your position. An answer like “That’s the way everything is going,”
   will earn little credit. Find statistics, news articles, studies or other information that support the proposition. 25 pts
6. What three propositions, arguments, or theories that the author suggests do you disagree with? Why do you
   disagree? Explain in detail and provide support. An answer like “That’s not the way everything is going,” will
   earn little credit. Find statistics, news articles, studies or other information that dispute the proposition. 25 pts
7. Would you recommend this book to the rest of us? Why or why not? Explain its value or weakness. 5 pts
8. Five questions that can be answered from the information you will provide via your class presentation. The
   questions may be T/F, multiple choice, fill in the blank or ordering. These may be used in the exam covering the
   Future Books. Thus, include your answer key with the written summary, but not in your multi-media
   presentation. 5 pts

The 10-15 minute presentation may be PowerPoint, Web, Video or a mixture of all three, but narration must be
provided.

You will cover:
1. Title, Author, Year Published.
2. What was the author’s central theme?
3. What three propositions, arguments, or theories that the author suggests do you agree with? Why do you agree?
   Explain in detail and provide support. An answer like “That’s the way everything is going,” will earn little
credit. Find statistics, news articles, studies or other information that support the proposition.
4. What three propositions, arguments, or theories that the author suggests do you disagree with? Why do you
   disagree? Explain in detail and provide support. An answer like “That’s not the way everything is going,” will
   earn little credit. Find statistics, news articles, studies or other information that dispute the proposition.
5. Would you recommend this book to the rest of us? Why or why not? Explain its value or weakness.
6. Wow us and do something that will help to make this book real to us. (See the description of this above).

In addition to the stock content, you may develop an exercise to help integrate the themes of this book into your
audience’s thoughts and memory. For example: you may develop a quiz, a game show, interview of classmates in a
talk show style, present a collage of video from movies or television, video of interviews with industry persons, a
website with interview responses with industry persons.

- **INT Post-Test**
  This is a 60 point comprehensive exam over all of the INT core courses. Its purpose is to evaluate your learning and
  retention of material from Foundations, Intro to Web, Leadership, Research Methods, Policy, Law and Ethics in
  INT, and Capstone. This examination is required of the INT Department as an evaluation tool as part of the
  University’s overall assessment program. Can you prepare? Yes, you may review your notes and materials from
  these other classes. Most of the questions will be relatively general and should reflect a body of knowledge and a
  vocabulary you have developed while a member of the INT student body.

- **Next Future Book Essay**
  After reviewing the future book presentations of your classmates, choose two of those books that you’d like to and
  explain what interests you about the book, what you think the book will offer, what you expect to be valuable to
  your career and why? This should be a 1-2 page essay. The purpose of this assignment is to have you review the
  choices and selections made by your classmates, consider the books they’ve summarized, and think critically about
  how two books exposed to you by this class might be added to your reading list after you commence your career.

- **Capstone Project**
  The capstone project is expected to be a major project of professional quality. It should reflect the learning and skill
  development of years of study and learning. The capstone project should demonstrate your skills at gathering data,
  analyzing the data to create useful information, formulating the information into a format that has value, and then
  presenting the information in an electronic format. The capstone project should not just rest on current abilities – if
  you are just building a web site, it should reflect skills that go well beyond the skills learned in Intro to Web. I
  strongly encourage you to undertake a project that will build your resume/portfolio or lays the base for starting your
  career.
For the Virtual Section of Capstone, the Capstone Project will be an individual project. Potential projects could include but not limited to any of the following:

- A study focusing on technology adoption by a defined group
- A study of a segment of the telecommunications industry
- Developing a detailed video or multi-media product presenting information on an information technology related issue or organization
- Setting up an electronic commerce web site
- Writing a software product
- Developing and implementing an IT hardware product
- Possibly implementing a business plan developed in INT 430

Some examples of past projects include:
- An INT Recruiting Video
- An Instructional DVD over Subnetting
- An INT Recruiting CD
- FHSU Recruiting CD
- The design and installation of a school network
- A web site instructing novices in the basics of web site creation
- A web site providing information on upgrading of a network from Frame Relay to ATM
- The development of a series of lab exercises for the CCNP certification
- A web site on computer and network security
- An e-commerce business
- A video and website for the HMC Wellness Center,
- The design and installation of the Wi-Fi network at the Hays Airport,
- A study of small business use of e-commerce

Obviously, a wide-range of potential projects is acceptable. Because this is a virtual section of Capstone, you will need to be especially creative, solving the problem of presenting your project virtually as well as developing a project that will advance your career! Feel free to discuss ideas with faculty, alumni, and others.

You are expected to average a minimum of three hours per week working on this project each week during the semester.

You will have two graded pieces in this process. The first will be the project proposal. The second will be the final project.

**Capstone Project Proposal:**
Project proposals will be full consulting proposals. The proposal will include a PowerPoint presentation with voice over posted to the discussion board on Blackboard for the class to review as well as a written document. One or more samples of proposals will be provided on Blackboard. The proposal will minimally include: a project summary, a detailed explanation of the project which will include the project objectives, a timeline, a budget and a statement of qualifications. Your goal is to create a highly professional proposal that a client will want to accept. Submit proposals to me in the appropriate area in “assignments.”

**Finished Capstone Project:**
The finished project will include: 1) completion of a significant project; 2) a detailed recorded summary of the project which is to be posted along with the multi-media presentation on Blackboard; 3) a multi-media presentation of the project which is to be posted to the Discussion Board on Blackboard.

Completion of a project will mean that the project has been completed as planned (or as an approved alternative – if the original project takes unexpected turns). You will apply the principles, skills, and abilities that you have developed during your university studies and will plan and execute a complex project. Ask yourself: What comprises a top quality video, an outstanding web site, or an impressive study or network? You can combine a series of these tools. The project must work with a significant amount of data and must showcase your skills.
You are strongly encouraged to find as many faculty and professional mentors as possible on the project. This means that you find people who you can seek advice and feedback from throughout the project. For example, if you are doing a network project, seek Professors Kevin Shaffer, Angela Walters, and Jon Tholstrup’s opinion before your embark on the project and repeatedly throughout. If you are doing a web project seek Professors Angela Walters and Stephen Schleicher’s advice and counsel. If you are doing a video project, seek advice from Professors Stephen Schleicher and Mel Hanks. If you are doing a survey, seek advice from the professional survey team at the Docking Institute and Mark Bannister. You may want advice from other FHSU faculty, professionals in the field, and alumni. The more reactions and advice you can get -- the better. We want to see you succeed! Typically, highly successful projects were developed by groups or individuals that requested input and have sought additional critique – well ahead of end-of-the-project deadlines.

Document your capstone project work. This information will be provided to the instructor. For example, a project entitled: “Asynchronous Transfer Mode Switching Topology Design and Implementation: An Information Networking and Telecommunications Capstone Project” was documented with a notebook that included a nine page report and appendices that included the following headings:

Nex-Tech, Inc. ATM Migration Project: Final Report
Introduction
Asynchronous Transfer Mode (ATM) Technologies
The Nex-Tech Migration Project – Background
The Nex-Tech Migration Project – Skill Upgrades
The Nex-Tech Project – Processes and Procedures (this included an itemized list of each of the changes made to the routers, switches, and media converters)
Post Performance and Capacity Issues
Successes and Failures
Thank You’s
Router Configurations
Sprint Internet Core Router – Before Migration
Redback Switch – Before Migration
Palco 5200 Router #2 – Before Migration
Sprint Internet Core Router – After Migration
Redback Switch -- After Migration
Palco 5200 Router #2 – After Migration

Network Topology Diagrams
Before Migration
After Migration
Performance Monitors

The St. Mary’s School Project included the following headings:
Project Page
Physical Network Construction
St. Mary’s Project – Linux Server
Report on Finances for the St. Mary’s Project
Web Site
Project Development Schedule
Appendix
Web Site Information (plan and hard copy of site)
Foundation for Free Technology
Grants for Schools
Team Credentials
Thank You
Copyright Issues
Information Given to St. Mary’s School & Misc. Items
(This included documentation one each of 20 PC’s)
Marketing Materials Used in Fundraising
Future Needs of St. Mary’s
Trouble Shooting Tips
Configuring St. Mary’s Email
Email Addresses and Passwords for Teachers
Network Diagram
Signed Authorization Forms For Use of Photos or Name of Business in Web Site

The national award winning 2000 INT Video group provided documentation that included:
- Project Overview
- Purpose of the Video
- Story Board
- Script
- Timeline
- Summary of Challenges Addressed
- Summary of Skills and Abilities Developed
- Acknowledgements

Capstone projects (documentation and presentation) will be posted for viewing during the last week of regular classes see the schedule for the deadline. You are encouraged to post a draft presentation of your capstone project as indicated on the schedule. This is a run-through to help you polish your presentation. During Finals Week, take time to view the hard work of your classmates and provide feedback.

Remember that your Final Presentations should WOW everyone, especially potential employers.

Each project will be presented in an electronic format e.g. PowerPoint presentation, web site, CD demo or video tape. During the presentation of your project inform the audience of what you have learned while doing the project. The presentation itself should not exceed a maximum of 15 minutes. Hit the high points. Your documentation should provide the details.

Each Final Project must be posted to Blackboard by 11PM CST of the scheduled due date. If special arrangements need to be made to accommodate the submitting of your project, please let me know well ahead of the due date so that an appropriate solution can be arrived at.

For web based projects, it is best if they are transferred over to the INT Departmental web page for others to view. If your project will require this, please let me know so that we can work with the student webmaster and the INT Engineer, Gary Hoffman, to gain access or convert formats (e.g. converting a video tape to streaming video).

The reason to host the projects on an INT server linked to the INT website is to expose your project to the world. This presentation: 1) allows potential employers to see and to assess your work (you may want to place the web address on your resume); and 2) this is an opportunity for potential students to visualize the skills they will develop in the INT program. Several INT Capstone projects have been submitted to competitions. Videos have earned regional and national awards from NBS and other organizations. Cisco Systems has recognized two projects as “Best Practices” among Cisco Networking Academies world-wide. We are looking for opportunities to enter websites into competitions. We will also look for opportunities to provide you recognition via press releases and news stories through both FHSU publications and the general news media. Several outstanding Capstone projects have received media attention.