

<b>Course</b>	COSC 6000/PB, Distributed Systems Project				
<b>Term</b>	SUMMER, 2008				
<b>Instructor</b>	Mr. Hancock ( <a href="mailto:monte.hancock@essexcorp.com">monte.hancock@essexcorp.com</a> ) Office Hours: 30 minutes before and after class				
<b>Catalog Description</b>	Students will design and implement a major system distributed information system that integrates the learning experiences gained in the previous courses.				
<b>Prerequisites</b>	Completion of 30 credit hours of the required and elective COSC courses in this program.				
<b>Course Level Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Explore and debate a critical issue related to a particular problem in the professional COSC environment.</li> <li>2. Establish a contract with the instructor for a project that demonstrates the student's mastery of the COSC core courses.</li> <li>3. Solve real world examples (science or engineering). We encourage "useful projects" that have practical, real-world value.</li> <li>4. Apply techniques and processes to implement a medium/large distributed and/or relatively complex, "Master's-level" system.</li> </ol>				
<b>Materials</b>	<p><b>SUGGESTED SUPPLEMENTAL READINGS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> <p>B. Stroustrup <u>The C++ Programming Language</u>, Addison Wesley. ISBN: 0201700735.</p> <p>John R. Hubbard, University of Richmond (2000) <b>Schaum's Easy Outline: Programming with C++</b> McGraw-Hill. ISBN: 0-07-052713-X <a href="http://www.mhhe.com">http://www.mhhe.com</a></p> <p><b>Herbert Schildt</b> <u>STL Programming from the Ground Up</u> Osborne publishing Inc. ISBN: 0-07-882507-5 <a href="http://www.osborne.com">http://www.osborne.com</a></p> <p>Herbert Schildt <u>C++ from the Ground Up, Second Edition C++ from the Ground Up</u> Second Edition. Osborne publishing Inc. ISBN: 0-07-882405-2 <a href="http://www.osborne.com">http://www.osborne.com</a></p> </td> <td style="width: 50%; padding: 5px;"> <p>W. Richard Stevens <u>TCP/IP Illustrated, Volume 3: TCP for Transactions, HTTP, NNTP, and the UNIX® Domain Protocols</u> Publisher: Addison Wesley ISBN: 0-201-63495-3 <a href="http://www.aw.com">http://www.aw.com</a></p> <p>W. Richard Stevens <b>TCP/IP Illustrated, Volume 1: The Protocols</b> Publisher: Addison Wesley ISBN: 0-201-63346-9 <a href="http://www.aw.com">http://www.aw.com</a></p> <p><b>Gary R. Wright &amp; W. Richard Stevens</b> TCP/IP Illustrated, Volume 2: The Implementation Publisher: Addison Wesley ISBN: 0-201-63354-X <a href="http://www.aw.com">http://www.aw.com</a></p> <p>W. Richard Stevens <b>UNIX Network Programming, Volume 1:</b></p> </td> </tr> </table>			<p>B. Stroustrup <u>The C++ Programming Language</u>, Addison Wesley. ISBN: 0201700735.</p> <p>John R. Hubbard, University of Richmond (2000) <b>Schaum's Easy Outline: Programming with C++</b> McGraw-Hill. ISBN: 0-07-052713-X <a href="http://www.mhhe.com">http://www.mhhe.com</a></p> <p><b>Herbert Schildt</b> <u>STL Programming from the Ground Up</u> Osborne publishing Inc. ISBN: 0-07-882507-5 <a href="http://www.osborne.com">http://www.osborne.com</a></p> <p>Herbert Schildt <u>C++ from the Ground Up, Second Edition C++ from the Ground Up</u> Second Edition. Osborne publishing Inc. ISBN: 0-07-882405-2 <a href="http://www.osborne.com">http://www.osborne.com</a></p>	<p>W. Richard Stevens <u>TCP/IP Illustrated, Volume 3: TCP for Transactions, HTTP, NNTP, and the UNIX® Domain Protocols</u> Publisher: Addison Wesley ISBN: 0-201-63495-3 <a href="http://www.aw.com">http://www.aw.com</a></p> <p>W. Richard Stevens <b>TCP/IP Illustrated, Volume 1: The Protocols</b> Publisher: Addison Wesley ISBN: 0-201-63346-9 <a href="http://www.aw.com">http://www.aw.com</a></p> <p><b>Gary R. Wright &amp; W. Richard Stevens</b> TCP/IP Illustrated, Volume 2: The Implementation Publisher: Addison Wesley ISBN: 0-201-63354-X <a href="http://www.aw.com">http://www.aw.com</a></p> <p>W. Richard Stevens <b>UNIX Network Programming, Volume 1:</b></p>
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	<p>Herbert Schildt  <b>C++: The Complete Reference</b>  ISBN: 0078824761  Publisher: Osborne/McGraw-Hill  <a href="http://www.osborne.com">http://www.osborne.com</a></p> <p>John R. Hubbard, University of Richmond  (2000)  <b>Schaum's Outline of Programming with C++,  Second Edition</b>  McGraw-Hill. ISBN: 0-07-135346-1  <a href="http://www.mhhe.com">http://www.mhhe.com</a></p> <p>Simon Bennett, Ericsson Intracom Ltd.  John Skelton, De Montfort University, UK  (2000)  <u>Schaum's Outline of UML</u>  McGraw-Hill. ISBN: 0-07-709673-8  <a href="http://www.mhhe.com">http://www.mhhe.com</a></p> <p>W. Richard Stevens  <b>Advanced Programming in the UNIX®  Environment, 1/e</b>  Publisher: Addison Wesley  ISBN: 0-201-56317-7  <a href="http://www.aw.com">http://www.aw.com</a></p> <p>Herb Sutter  <b>More Exceptional C++</b>  Addison-Wesley Pub Co  ISBN: 020170434X  <a href="http://www.aw.com">http://www.aw.com</a></p> <p>Andrei Alexandrescu  <u>Modern C++ Design: Generic Programming and  Design Patterns Applied</u>  Publisher: Addison Wesley  ISBN: 0-201-70431-5  <a href="http://www.aw.com">http://www.aw.com</a></p> <p>Scott Meyers  <u>Effective STL: 50 Specific Ways to Improve  Your  Use of the Standard Template Library</u>  Publisher: Addison Wesley  ISBN: 0-201-74962-9  <a href="http://www.aw.com">http://www.aw.com</a></p>	<p><b>Networking APIs - Sockets and XTI, 2/e</b>  Copyright: 1998  Publisher: Prentice Hall  ISBN: 0-13-490012-X  <a href="http://vig.prenhall.com/">http://vig.prenhall.com/</a></p> <p>W. Richard Stevens  <b>UNIX Network Programming, Volume 2:  Interprocess Communications, 2/e</b>  Publisher: Prentice Hall  ISBN: 0-13-081081-9  <a href="http://vig.prenhall.com/">http://vig.prenhall.com/</a></p> <p>Douglas C. Schmidt, Stephen D. Huston  <b>C++ Network Programming Volume 1</b>  Addison-Wesley Pub Co; ISBN: 0201604647  <a href="http://www.aw.com">http://www.aw.com</a></p> <p>Robert Lafore  <b>The Waite Group's Object-Oriented  Programming in C++</b>  ISBN: 157169160X  Publisher: Sams  <a href="http://www.sampublishing.com/">http://www.sampublishing.com/</a></p> <p>Stephen Prata  <u>The C++ Primer Plus (Fourth Edition)</u>  Published by Sams  Date Published: 11/2001  ISBN: 0672322234  <a href="http://www.sampublishing.com/">http://www.sampublishing.com/</a></p> <p>Harvey M. Deitel  <b>C++: Introducing Ooad with the Uml</b>  ISBN: 0130895717  Publisher: Prentice Hall (Pub Date: August  2000)  <a href="http://vig.prenhall.com/">http://vig.prenhall.com/</a></p> <p>Core Java 2, Volume 1: Fundamentals, 6/E  Cay S. Horstmann  Gary Cornell, University of Connecticut  ISBN: 0-13-047177-1  Publisher: Prentice Hall PTR / Sun  Microsystems Press  <a href="http://www.prenticehall.com">http://www.prenticehall.com</a></p> <p>Core Java 2, Volume II: Advanced Features,  5/E  Cay S. Horstmann  Gary Cornell, University of Connecticut  ISBN: 0-13-092738-4  Publisher: Prentice Hall PTR / Sun  Microsystems Press</p>
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	<p>Kendall Scott  <b>UML Explained, 1/e</b>  Publisher: Addison Wesley  ISBN: 0-201-72182-1  <a href="http://www.aw.com">http://www.aw.com</a></p> <p>Paul Evitts  <u>A UML Pattern Language (Macmillan Technology Series)</u>  New Riders Publishing  ISBN: 157870118X</p> <p>Erich Gamma, Richard Helm, Ralph Johnson, John Vlissides  <b>Design Patterns</b>  Addison-Wesley Pub Co  ISBN: 0201633612  <a href="http://www.aw.com">http://www.aw.com</a></p> <p>James Noble, Charles Weir, Duane Bibby  <u>Small Memory Software: Patterns for Systems with Limited Memory (Software Patterns Series)</u>  Addison-Wesley Pub Co  ISBN: 0201596075  <a href="http://www.aw.com">http://www.aw.com</a></p> <p>James O. Coplien, Douglas C. Schmidt (Editor), Jim Coplien  <b>Pattern Languages of Program Design</b>  Addison-Wesley Pub Co  ISBN: 0201607344  <a href="http://www.aw.com">http://www.aw.com</a></p> <p>John M. Vlissides (Editor), James O. Coplien (Editor), Norman Kerth (Contributor), James] Coplien  <b>Pattern Languages of Program Design 2</b>  Addison-Wesley Pub Co  ISBN: 0201895277  <a href="http://www.aw.com">http://www.aw.com</a></p> <p>Robert C. Martin (Editor), Dirk Riehle (Editor), Frank Buschmann (Editor), John Vlissides  <b>Pattern Languages of Program Design 3</b>  Addison-Wesley Pub Co  ISBN: 0201310112  <a href="http://www.aw.com">http://www.aw.com</a></p> <p>Neil Harrison (Editor), Brian Foote (Editor), Hans Rohnert (Editor)  <u>Pattern Languages of Program Design 4 (Software Patterns Series)</u>  Addison-Wesley Pub Co</p>	<p><a href="http://www.prenticehall.com">http://www.prenticehall.com</a></p> <p>SCHAUM'S OUTLINES OF PROGRAMMING  <b>Author:</b> John R. Hubbard, University of Richmond  McGraw-Hill      <b>ISBN:</b> 0-07-134210-9  <a href="http://www.mhhe.com">http://www.mhhe.com</a></p> <p>Java 2 Certification All-in-One Exam Guide, 3rd Edition  Already have it  Author(s): William Stanek  ISBN: 0072191694  Format: Hardcover, 250 illus., 800 pages.  Publisher: McGraw-Hill Companies  <a href="http://www.mhhe.com">http://www.mhhe.com</a></p> <p>Sun Certified Programmer for Java 2 Study Guide (Exam 310-025)  Already have it  Author(s): Syngress Media, Inc.  ISBN: 0072132086  Format: Hardcover, 40 illus., 672 pages.  Publisher: McGraw-Hill Companies  <a href="http://www.mhhe.com">http://www.mhhe.com</a></p> <p>Mike Meyers' Java 2 Certification Passport (Exam 310-025)  Author(s): Cindy Glass, Jane Griscti, Margarita Isayeva  Ajith Kallambella, Kathy Sierra  ISBN: 0072193662  Format: Softcover, 100 illus., 450 pages.  Publisher: McGraw-Hill Companies  <a href="http://www.mhhe.com">http://www.mhhe.com</a></p> <p>Core Java(tm) 2 Resource Kit  Cay S. Horstmann  Gary Cornell, University of Connecticut  ISBN: 0-13-146116-8  Publisher: Prentice Hall PTR / Sun Microsystems Press  <a href="http://www.prenticehall.com">http://www.prenticehall.com</a></p> <p>Core Java(tm) 2 Resource Kit - CD  Cay S. Horstmann  Gary Cornell, University of Connecticut  ISBN: 0-13-101807-8  Publisher: Prentice Hall PTR / Sun Microsystems Press  <a href="http://www.prenticehall.com">http://www.prenticehall.com</a></p> <p>Java2: The Complete Reference, 5th Edition  By: Herbert Schildt</p>	<p>PROGRAMMING</p> <p>University of</p> <p>Richmond</p> <p>ISBN: 0-07-134210-9</p> <p>Exam Guide,</p> <p>3rd Edition</p> <p>Author(s): William Stanek</p> <p>800 pages.</p> <p>Companies</p> <p>Companies</p> <p>Study</p> <p>672 pages.</p> <p>Companies</p> <p>Passport</p> <p>Griscti,</p> <p>Sierra</p> <p>450 pages.</p> <p>Companies</p> <p>Sun</p> <p>Press</p> <p>CD</p> <p>Companies</p> <p>8</p> <p>Sun</p> <p>Press</p> <p>5th Edition</p> <p>Schildt</p>
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	<p>ISBN: 0201433044  <a href="http://www.aw.com">http://www.aw.com</a></p> <p>Linda Rising, The Pattern Almanac 2000  Addison-Wesley Pub Co  ISBN: 0201615673  <a href="http://www.aw.com">http://www.aw.com</a></p> <p>Additional information, Network Programming  (<a href="http://www.kohala.com/start/">http://www.kohala.com/start/</a>)</p> <p>Java Web Site:<a href="http://java.sun.com">http://java.sun.com</a></p> <p>Unified Modeling Language (UML) Specification  (<a href="http://www.omg.org">www.omg.org</a> web sites)</p>	<p>Publisher: McGraw-Hill Companies  ISBN: 0-07-222420-7  Description: ©2002 / Softcover / 1184 pages  <a href="http://www.mhhe.com">http://www.mhhe.com</a></p> <p><b>OBJECT-ORIENTED SOFTWARE ENGINEERING:</b>  Practical Software Development using UML and Java  <b>Authors:</b> Timothy Lethbridge &amp; Robert Laganiere  <b>ISBN:</b> 0-07-283495-1  <a href="http://www.mhhe.com">http://www.mhhe.com</a></p> <p>The guru of the Week <a href="http://www.gotw.ca">www.gotw.ca</a></p>
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<b>Activities</b>	<p>Incoming competency of students expected by instructor: Knowledge of Object Oriented Analysis and Design, Database programming, Network programming, proficiency in using C++ Programming language and Universal Modeling Language (UML).</p> <p>Students sometimes find the 6000 projects to be unfamiliar territory; accordingly, we have found that it is best for the student to measure progress against specified completion goals each week. This will provide the instructor with enough time to give the student meaningful feedback.</p> <p>Students are expected to follow software development methods that include requirements, analysis, design, implementation, testing and verification phases.</p> <p>Students are expected to demonstrate the ability to think, write, and speak about complex issues, and solve problems.</p> <p>Present topic ideas &amp; deliver a detailed outline with deadlines for each section.  Email project topic (<a href="mailto:monte.hancock@essexcorp.com">monte.hancock@essexcorp.com</a>)</p> <p>The format for technical documentation of your project will be discussed in class.</p>							
<b>Policy Statements:</b>	<p>University policies are provided in the current course catalog and course schedules. They are also available on the university website. This class is governed by the university's published policies. The following policies are of particular interest:</p>							
<b>University Policies</b>	<p><b>Academic Honesty</b></p> <p>The university is committed to high standards of academic honesty. Students will be held responsible for violations of these standards. Please refer to the university's academic honesty policies for a definition of academic dishonesty and potential disciplinary actions associated with it.</p> <p><b>Drops and Withdrawals</b></p> <p>Please be aware that, should you choose to drop or withdraw from this course, the date on which you notify the university of your decision will determine the amount of tuition refund you receive. Please refer to the university policies on drops and withdrawals (published elsewhere) to</p>							

	<p>find out what the deadlines are for dropping a course with a full refund and for withdrawing from a course with a partial refund.</p> <p><b>Special Services</b> If you have registered as a student with a documented disability and are entitled to classroom or testing accommodations, please inform the instructor at the beginning of the course of the accommodations you will require in this class so that these can be provided.</p> <p><b>Disturbances</b> Since every student is entitled to full participation in class without interruption, disruption of class by inconsiderate behavior is not acceptable. Students are expected to treat the instructor and other students with dignity and respect, especially in cases where a diversity of opinion arises. Students who engage in disruptive behavior are subject to disciplinary action, including removal from the course.</p> <p><b>Student Assignments Retained</b> From time to time, student assignments or projects will be retained by the Department for the purpose of academic assessment. In every case, should the assignment or project be shared outside the Academic Department, the student's name and all identifying information will be redacted from the assignment or project.</p> <p><b>Contact Hours for This Course</b> It is essential that all classes meet for the full instructional time scheduled. A class cannot be shortened in length. If a class session is cancelled for any reason, it must be rescheduled.</p>
<p><b>Course Policies</b></p>	<p>Attendance at all class sessions is expected.</p> <p>Late weekly write-ups and written case assignments will be accepted if prior arrangements have been made with the instructor, but will be given reduced points based upon the number of class sessions it is late.</p>
<p><b>Week 1 Schedule</b></p>	<p><b>PREPARATION FOR CLASS:</b> Prior to the first class, complete the Topic Approval Form 6000 Integrated Studies Research Project, which is available from the college office or on the Webster University Space Coast Region home page under Student Resources, Term Paper/6000 Project/6000 Topic Approval Form..</p> <p>Review Syllabus Schedule/Grades/Requirements--- Discuss appropriate COSC integrated topics –</p> <p><b>CLASSROOM DISCUSSION TOPICS: Deadline for project approval</b> Students will present their topic idea and a plan for the development and documentation of their project. Email project topic (<a href="mailto:monte.hancock@essexcorp.com">monte.hancock@essexcorp.com</a>)</p>

	<p>The format for technical documentation of your project will be discussed in class.  <b>“What is a status report?”</b></p>
<b>Week 2 Schedule</b>	<p><b>PREPARATION FOR CLASS:</b> write an executive summary for your project system. List high-level use-cases.</p> <p><b>CLASSROOM DISCUSSION TOPICS:</b> System Design &amp; Analysis. Discussion may include development methodologies, class/object diagrams, use cases, and interactions among objects. “How to Give a Technical Presentation”.</p>
<b>Week 3 Schedule</b>	<p><b>PREPARATION FOR CLASS:</b> prepare a status report on your project system</p> <p><b>CLASSROOM DISCUSSION TOPICS:</b> System Implementation and Testing. Students will give status report on their work to the class.</p>
<b>Week 4 Schedule</b>	<p><b>PREPARATION FOR CLASS:</b> prepare a projected schedule for your project system development. Be ready to describe your development methodology.</p> <p><b>CLASSROOM DISCUSSION TOPICS:</b>  System implementation <b>Expected Completion level: 30%</b>  <b>Due (Project Delivery): Phase I</b>  Email Delivery-1 (<a href="mailto:monte.hancock@essexcorp.com">monte.hancock@essexcorp.com</a>)  Students will give status report on their work to the class.</p>
<b>Week 5 Schedule</b>	<p><b>PREPARATION FOR CLASS:</b> prepare project system status report 2. Be ready to discuss challenges and your mitigation strategy.</p> <p><b>CLASSROOM DISCUSSION TOPICS:</b> System implementation  Expected completion level: 70% Students will give status report on their work to the class.</p>
<b>Week 6 Schedule</b>	<p><b>PREPARATION FOR CLASS:</b> prepare project system status report. Include estimated development cost.</p> <p><b>CLASSROOM DISCUSSION TOPICS:</b> System implementation – phase III  <b>Expected completion level: 100%</b>  Email Delivery-2 (<a href="mailto:monte.hancock@essexcorp.com">monte.hancock@essexcorp.com</a>)  Students will give status report on their work to the class.</p>
<b>Week 7 Schedule</b>	<p><b>PREPARATION FOR CLASS:</b> prepare draft version of user guide.</p> <p><b>CLASSROOM DISCUSSION TOPICS:</b></p> <p>User guide, draft version, Students will give status report on their work to the class.</p>
<b>Week 8 Schedule</b>	<p><b>CLASSROOM DISCUSSION TOPICS:</b> Technical documentation, students will give Status report on their work to the class.</p>
<b>Week 9 Schedule</b>	<p><b>PREPARATION FOR CLASS:</b> complete all technical and documentation work. Prepare final presentation and demo.</p> <p><b>CLASSROOM DISCUSSION TOPICS:</b>  <b>Project is due.</b> Turn-in both soft and hard copies of the User and Technical documents. The soft copy must include all design artifacts, requirements and design, source code, and set up</p>

files to generate executable. Formal presentation of project work to the class (PowerPoint, handouts, and demonstration if appropriate).
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**PURCHASING TEXTBOOKS--**Most textbooks can be purchased through **MBS Direct**. Check the syllabus for textbook information. Give MBS Direct the campus location (for the purpose of ordering books the campus is **Space Coast Campus**, course name, number and section number (i.e. Space Coast Campus, COMP5000/64) and most important, the **title, author, edition, and ISBN** of the book you are ordering. MBS Direct will buy back your book at the end of the term should you elect not to retain it as a reference book. Order by phone or online. Orders should be placed no earlier than 4 weeks prior to the start of the term.

**MBS Direct:** 1-800-325-3252

MBS Direct Website is

[www.mbsdirect.net/webster](http://www.mbsdirect.net/webster)

Monday-Thursday 7am-10pm(Central Time)

Friday 7am-6pm (Central Time)

Saturday 8am-5pm (Central Time)

Sunday noon-4pm (Central Time)

In order to meet the course objectives this syllabus may be modified at the discretion of the instructor without approval of the students.

**Original approved by:**

Dr. Calvin D. Fowler Academic Dean Space Coast Region, April 10, 2008

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