

Request for Undergraduate Course Addition - Page 2
Additional Information Required for Undergraduate Course Addition

College: Science Department/Division: IST Alpha Designator/Number: IST 303

Provide complete information regarding the new course addition for each topic listed below. Before routing this form, a complete syllabus also must be attached addressing the items listed on the first page of this form.

1. Identify by name the faculty in your department/division who may teach this course.

Mr. Brian Morgan

2. If your department/division requires additional faculty, equipment, or specialized materials, attach an estimation of money and time required to secure these items.

N/A. Current resources are sufficient.

3. If this course will be required by a department/division other than your own, identify by name.

N/A

4. If there are any agreements required to provide clinical experience, attach details and signed agreements.

N/A

5. If library resources are deemed inadequate, attach a plan to overcome this. The plan must include the cost as stated by the Dean of Libraries.

Library resources are adequate.

6. EQUIPMENT/SUPPLIES NEEDED TO TEACH THIS COURSE (this does not refer to additional equipment/supplies that need to be purchased; simply what materials are needed in order to teach this course successfully.):

The course requires a computer laboratory with Visual Studio .NET installed, which IST already has available. It does not require any specific software installed on the computers. The students can work on any computer in any IST lab or in the MU library.

7. ADDITIONAL GRADUATE REQUIREMENTS IF LISTED AS AN UNDERGRADUATE OR GRADUATE COURSE (please also submit to Graduate Council course addition for 5xx graduate component):

N/A

8. PROVIDE A COMPLETE BIBLIOGRAPHY INCLUDING ALL PUBLICATIONS RESEARCHED TO CREATE THIS COURSE AND WHAT PUBLICATIONS MAY BE BENEFICIAL TO STUDENTS TAKING THIS COURSE (separate page).

IST303 Bibliography

1. Matthew Telles. *Visual C# 2005 Black Book*. Pagina Förlags AB, Sweden, 2006. ISBN 1-933097-16-7.
2. Stephen Teilhet and Jay Hilyard. *C# cookbook*. O'Reilly & Associates. ISBN 0-596-00339-0.
3. Paul Yao and David Durant. *.NET Compact Framework programming with C#*. Microsoft .NET development series. Addison-Wesley. ISBN 0-321-17403-8.
4. Shawn Wildermuth. *Pragmatic ADO.NET: data access for the Internet world*. Microsoft .NET development series. Addison-Wesley. ISBN 0-201-74568-2
5. Pro C# 2008 and the .NET 3.5 Platform, Fourth Edition (Windows.Net) by Andrew Troelsen. ISBN: 978-1590598849
6. Microsoft Visual C# 2008 Step by Step by John Sharp. ISBN: 978-0735624306.
7. Professional C# 2008 (Wrox Professional Guides) by Christian Nagel, Bill Evjen, Jay Glynn, and Morgan Skinner. ISBN: 978-0470191378
8. Beginning Microsoft Visual C# 2008 (Wrox Beginning Guides) by Karli Watson, Christian Nagel, Jacob Hammer Pedersen, and Jon D. Reid. ISBN: 978-0470191354
9. Illustrated C# 2008 (Windows.Net) by Daniel Solis. ISBN: 978-1590599549
10. More Effective C#: 50 Specific Ways to Improve Your C# (Effective Software Development Series) by Bill Wagner. ISBN: 978-0321485892.
11. C# Programming: From Problem Analysis to Program Design, 2nd Edition by Barbara Doyle. ISBN-10: 1423901460
12. Programming with Microsoft Visual Basic®.NET: An Object-Oriented Approach, Comprehensive, 1st Edition by Michael Ekedahl | William Newman. ISBN-10: 0619239204
13. Microsoft ADO.NET Professional Projects, 1st Edition by Sanjeev Rohilla | Surbhi Malhotra. ISBN-10: 1931841543

IST303: C# NET Programming - Course Syllabus

Instructor : Brian M. Morgan
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Textbooks:

The following textbook is required for the course:

C# Programming: From Problem Analysis to Program Design, 2nd Edition by Barbara Doyle.
ISBN-10: 1423901460

Computer Requirements:

Supplemental materials can be found contained within the Blackboard environment. I will be sending class announcements, updates, etc. using your Blackboard account (will discuss during the first lecture). Access to a WWW browser is required (Firefox 2.0 or Explorer 7.0 or higher) and Adobe Acrobat Reader (available for download through the class Blackboard site).

Course Description:

This course covers the essentials for developing robust and secure applications using C#, Windows forms, and the .NET framework. We will also cover ADO.NET, writing secure .NET applications and web services.

Credit:

The course is three (3) credit hours. It includes classroom lectures, exams, and programming projects. Students will participate in programming projects that illustrate the implementation of concepts in general applications.

Pre/co-requisites:

None

Desired Objectives/Outcomes:

By the end of this course, students should be able to discuss, while demonstrating the ability to solve large-scale problems through building C# applications. Specific objectives include:

- Demonstration an understanding of the C# programming language by programming assignments of varying degrees of difficulty
- To further develop an understanding of the .NET Framework
- To demonstrate an understanding of Object-Oriented programming
- To demonstrate an understanding of exceptions
- To demonstrate an understanding of event handling and event programming
- To demonstrate an understanding of libraries

Instruction method:

There will be 3 contact hours of classroom lecture per week. Projects covering the major topics are part of the course. Students may work on their assignments in the IST computer labs.

Evaluation method:

Evaluation of student's performance will be based on the quality of your performance on assignments, exams, and class and web-based participation.

Grading Policy:

Final grades are based on performance in assignments, exams, and attendance as indicated below.

Midterm	15%
Final Exam	25%
Projects	50%
Attendance & Participation	10%

Assessment of Projects:

The grading of all projects will take into account the following:

1. Although the most important attribute of a project is correctness, grading will take into consideration such items as project efficiency and documentation of procedures.
2. Projects must have proper documentation. 20% will be deducted for poorly documented results.
3. When a project does not specify a required complexity, the grading will differentiate between efficient and nonefficient results.
4. Although interactions with other students are encouraged, you must compose your own answers, unless otherwise noted.

Individuals who utilize other people's code, thoughts, or ideas must provide appropriate references to said resources. Failure to provide such documentation will result in a failing grade for the assignment, and may result in a failing grade for the course.

Final letter grades are determined based on the following grading scale:

90-100%	A
80-89%	B
70-79%	C
60-69%	D
Below 60	F

The instructors reserve the right to change these values depending on the overall class performance and/or extenuating circumstances.

Policy Statement:

Projects and assignments: The course includes a number of projects and assignments. All assignments are due at the beginning of the class period on the due date. Late assignments will be penalized at the rate of 5% per day (including weekends).

Exams: There are two exams: Mid-term (during the 8th week) and a Final exam (as scheduled). Exact dates and times of exams will be announced in class.

Make-up Exams and Late Penalty: Make-up exams will not be given except under unusual circumstances and satisfactory written justification. Any student who misses an exam due to an unexcused absence will receive a grade of zero for that exam with no opportunity for make-up or substitution. University excused absences or those occurring with a good reason will be excused. Make up exams must be taken within one week of the original scheduled date. The decision whether to give a make up exam rests with the instructor.

Passing grade: Assignments and exams are required parts of the course and must be satisfactorily completed to pass this course. A student must have a passing performance on each part. A failing grade on a component may result in a failing grade in the course.

Attendance Statement:

Class attendance is mandatory and is a required part of the course. Those needing to miss class for a legitimate reason must contact me via telephone/voice mail or e-mail prior to the class meeting for it to be excused. See grading policy.

Withdrawal Policy:

The University withdrawal policy is followed in this course.

Topics and Methodology:

The following outline delineates the tentative class schedule with topics to be addressed during the course. Please note this is a tentative schedule and it may change upon class progress:

<u>Topic</u>	<u>Weeks</u>
<ul style="list-style-type: none">• C# Data Types and Expressions• Methods and Behaviors• Making Decisions• Repeating Instructions• Arrays and Collections• Introduction to Windows Programming• Programming Based on Events• Advanced Object-Oriented Programming Features• Handling Exceptions• Working with Files• Database Access using ADO.NET• Web-Based Applications	

For each topic discussed in the textbook, specific experience of other students and the instructor will be discussed to enhance the characteristics involved. Additional material may also be covered in the class. Every student is responsible for all materials presented in class, including lectures, notes, and handouts. In case you are not present for a class, it is your responsibility to contact the instructor and receive information about the material presented in that class. Class attendance is very important.

Effort Required:

As a 300-level course, a considerable amount of research and effort are required of the student. For every one hour in class, the student is expected to put in an effort of at least 3 hours outside the class for studying and programming. Upon background and preparedness, some students may have to put in additional effort.

Communication:

The Bulletin Board facility of Blackboard and private E-mail will be used to make any general announcements, last minute changes, etc. It is mandatory that you monitor your Blackboard course messages at least once a day.