

Intermediate COBOL

About your instructor

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About this class

Beginning Date 1/17/2010
Number of Weeks 17

Course Description

This course is a continuation of COBOL programming done in the mid-range environment using the IBM iSeries more sophisticated programs written involving the concepts of control-break principles, tables, sorting, merging, indexed sequential file organization, file maintenance, different file access modes, and subprograms. This course will also give hands-on experience in analyzing, coding, debugging and executing batch programs. Structured programming techniques will be used to write programs that create reports and files using calculations, data validation, headings, detail and summary information.

Before you begin this course

Programming Logic Intermediate (152-102) - passing with at least a C-.

Introduction to the iSeries (152-120) - passing with at least a C-.

COBOL Beginning (152-110) - passing with at least a C-

Textbooks

James Ley, Nancy Stern, Robert Stern. *COBOL for the 21st Century*. Edition: 11th. Publisher: Wiley & Sons, Inc.. Year: 2006. ISBN: 0-471-72261-3. Pages: 764. Price: 100. Required

Robert W Janson. *Introduction to IBM i and Rational Developer i*. Edition: 5th. Publisher: Janson Industries. Year: 2009. ISBN: 0-966-42215-5. Required

Lesley Anne Robertson. *Simple Program Design*. Edition: 5th. Publisher: Course Technology. Year: 2007. ISBN: 978-1-4239-0192-7. Pages: 352. Required

Supplies

USB drive.

Core abilities this course will help you build

- o Act with integrity
- o Apply technology to specific occupational tasks (MSTC)
- o Assure quality
- o Demonstrate effective critical and creative thinking
- o Learn effectively
- o Manage self responsibly

Competencies this course will help you master

1. Review program development process.
2. Use an Integrated Development Environment (IDE) for program development.
3. Demonstrate the ability to debug COBOL programs.
4. Utilize physical and logical files in COBOL programs.
5. Demonstrate the sorting of files and create a new file in sorted order.
6. Write COBOL program using control break logic.
7. Validate input data before data is processed in a program.
8. Demonstrate the ability to write code and debug an indexed file maintenance program.
9. Develop a program using embedded SQL.
10. Apply table and array concepts in COBOL programs.
11. Utilize COBOL processing techniques to pass data from a main program to a subprogram.

How your performance will be graded

Grading details

Your final grade will be determined from the following components:

| | |
|--------------|-----|
| Assignments: | 10% |
| Quizzes | 10% |
| Check offs: | 15% |
| Programs: | 20% |
| Exams: | 45% |

Grading scale

| | |
|----|-----------|
| A | 96 - 100% |
| A- | 92 - 95% |
| B+ | 88 - 91% |
| B | 84 - 87% |
| B- | 80 - 83% |
| C+ | 77 - 79% |
| C | 75 - 76% |
| C- | 73 - 74 % |
| D+ | 72% |
| D | 71% |
| D- | 70% |
| F | Below 70% |

How to succeed in this course

Attendance Policy

Students must attend class regularly and actively participate in all class activities. Attendance will be taken. An absence is defined as being absent, tardy, or doing non-class work during class. If you are not in class, you will miss important information, thereby affecting your grade. Class lectures will not be repeated and it is your responsibility to make up any missed work. If you have unexcused absences that equal a weeks' worth of class, I will refer you to Student Services. If you have two weeks of unexcused absences, you may be dropped from class.

Referrals

Referrals to MSTC's Student Services may be made for inappropriate classroom conduct (including cheating), lack of academic progress or excessive absences. Disciplinary action, including being dropped from the course, will be taken for conduct issues.

Tutors

If you find that you are having trouble with this course and need to rely too heavily on other students for help, consider using the IT tutor. The IT tutor is there to help you learn the material so that you can be successful in this class. Don't wait until it's too late.

Tests

There will be several tests given throughout the semester. Exams must be taken on the day they are scheduled. If you know you will miss an exam, let me know so we can make arrangements. If you miss an exam without notifications prior to the exam date, the maximum grade for the exam will be 50%.

If you fail to maintain a 70% average on your tests, you will receive a 0% for the test component of your grade.

Early or late exams may or may not be the same exam that the class takes on test day.

Programs

There will be several programs turned in for grading. These will require design as well as program execution activities. All programs will adhere to a specific set of standards that will be given. Part of these programs will require you to "dig out" information on your own. Be prepared to read the text for information or insights not covered in class.

Programs will be due the class meeting specified on the assignment/program description sheet. Programs will not be graded unless they execute. Programs will be graded based on the criteria on the programs description sheet. Programs will be graded from 0 to 100%.

Be prepared to spend time outside of class to finish your assignment. The normal rule for the amount of outside time to be spent is 1 to 2 hours per hour of class.

When coming for debugging assistance you must present evidence of your design and of your debugging activities.

Assignments

Assignments will be due the class meeting specified. Any assignment is late if it is not turned in at the beginning of class on the assignment due date. Late assignments turned in the same day they are due will result in a 10% reduction in points. Any other late assignments (turned in after the due date) will only be worth a maximum of 75%. Any assignment which is more than 1 week late will be worth 0%.

Check offs

Check offs will be due the class meeting assigned. Check offs will be graded on pass/fail basis. If you do not meet the criteria of the check off, the check off can be reworked.

Quizzes

At various times throughout the semester, your instructor will give a quiz over the assigned reading material. Regardless of how many quizzes are actually given, your total score on all quizzes will be scaled to be worth 10% of your grade. If your quiz grade falls below 70%, you will receive a 0% for the quiz component of your grade.

NQA2

You will be expected to complete all assignments, programs and tests on the scheduled dates. However, two "No Questions Asked" (NQA) coupons will be handed out.

If you are handing in a late assignment, late program or taking an exam late, you must staple a coupon to it. The assignment/program/test will then be graded as if it were handed in on time. One coupon must be attached to the assignment/program/exam for each class (not calendar) day that it is late.

NQA's can be used for missed quizzes.

If lost, the NQA's will not be replaced. You will receive bonus points if you return your NQA's at the end of the semester. You have opportunities throughout the semester to earn two more NQA's

Core Abilities

In addition to specific job-related training, MSTC has identified a set of core abilities which are transferable and go beyond the content of a specific course. The college supports the following skills for all graduates of MSTC:

Act with Integrity

Communicate Effectively

Demonstrate Effective Critical and Creative Thinking

Demonstrate Global Social Awareness

In the professional world, your performance in the above core abilities is expected from the very first day of employment. Should you fail to succeed in any of these areas, it is difficult to regain your reputation. Any problems that arise during the semester with the core abilities can lead to a reduction in your final grade. This will be at the subjective discretion of the instructor.

Academic Integrity

The Mid-State Technical College Board, administration, faculty, and staff believe that academic honesty and integrity are fundamental to the mission of higher education. All students are expected to maintain and promote the highest standards of personal honesty and professional integrity. These standards apply to all examinations, assigned work, and projects. Therefore, a student who is found to have been dishonest, fraudulent, or deceptive in the completion of work or is willing to help others to be so or who is found to have plagiarized (presented the work of others as his or her own) is subject to disciplinary action up to and including suspension.

ADA Statement

If you know you have a recognized disability, or suspect that you might have one, it is your responsibility to identify yourself as soon as possible to the Disability Services staff in Student Services. Course standards will not be lowered but various kinds of accommodations are available to you. Adequate and reasonable time will be required to develop and provide appropriate accommodations so contact Disability Services as soon as possible. It is MSTC's goal to assist you in your individual educational plan.