

BIL 106E
Introduction to Science and Engineering Computing (FORTRAN) (Spring 2013)

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| 1. This course requires pre-requisites, co-requisites or assumes that you acquired and digested the material covered in some of the courses as listed below so that you will not have a difficulty following and applying the material taught in this course as listed below. On a scale of 1 to 5 (1 being strongly disagree and 5 being strongly agree), evaluate these pre-requisites. | | | | | | | | | | |
| | BIL101E | | | | | | | | | |
| Helped me understand fundamentals in BIL106E | | | | | | | | | | |
| Could clearly relate the material in this class to BIL106E | | | | | | | | | | |
| Overall, this course is a good building block for BIL106E | | | | | | | | | | |
| 2. List any prior courses, other than the above, you found useful in understanding the concepts in BIL106E. | | | | | | | | | | |
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| 3. Evaluate the usefulness of course material (1 being the least useful and 5 being the most useful, 0 if not applicable). | | | | | | | | | | |
| Class notes/slides/reading assignments | | | | | | | | | | |
| Use of ITU's Ninova e-Learning System | | | | | | | | | | |
| Use of computer, internet and software | | | | | | | | | | |
| Homework Problems | | | | | | | | | | |
| Quizzes | | | | | | | | | | |
| Midterms and Final Exams and their solutions for previous years | | | | | | | | | | |
| Homework solutions | | | | | | | | | | |
| Quiz solutions | | | | | | | | | | |
| 4. What additional background would have been useful in completing this course e.g., additional math courses, physical science courses, petroleum engineering courses, etc.) | | | | | | | | | | |
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| 5. Teacher's Evaluation (on a scale of 5; 1 being infrequently and 5 being almost always). | | | | | | | | | | |
| Instructor required high level of performance | | | | | | | | | | |
| Instructor encouraged questions, comments, etc. | | | | | | | | | | |
| Instructor showed respect for students | | | | | | | | | | |
| Instructor presented course content clearly | | | | | | | | | | |
| Instructor was timely returning graded material | | | | | | | | | | |
| Instructor was accessible outside of class | | | | | | | | | | |
| Instructor was prepared for class | | | | | | | | | | |
| Instructor lectures etc. were consistent with course objectives | | | | | | | | | | |
| Instructor assigned grades in an unbiased way | | | | | | | | | | |

| 6. Student's Evaluation (on a scale of 5; 1 being infrequently and 5 being almost always). | | |
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| Student attended the class | | |
| Student worked hard for this class | | |
| Student prepared for this class | | |
| Student found the course material to be interesting | | |
| Student found the course material to be difficult | | |
| 7. What material of this course is covered in prior courses? | | |
| Topics | Yes/No | Which course |
| Introduction to the basics of computers | | |
| Introduction to basic skills to develop algorithms | | |
| Understanding an instruction set architecture and write simple programs | | |
| Understand on a broad level how other components, such as operating systems and compilers are organized and tie into the organization of the computer | | |
| FORTRAN data types, constant, and variables | | |
| Selective execution, logical expressions and IF statement | | |
| Repetitive Execution: Counter controlled Do loops and Do-Exit Construct | | |
| Formatted Input and Output and File Processing | | |
| Programming with Subroutines and Functions | | |
| Programming with One Dimensional and Multi-Dimensional Arrays | | |
| 8. Do you believe that the course objectives/outcomes, as stated, are met in this course? | | |
| Objectives/Outcomes | Yes/No | |
| A general knowledge of programming and FORTRAN language | | |
| Developing an understanding of fundamental programming logic and programming techniques | | |
| Fundamental knowledge of algorithm design and problem solving | | |
| Acquirement of basic syntax and structure of FORTRAN programming language | | |
| Developing the knowledge of editing, compiling, running and debugging of a program | | |
| Developing a working knowledge on the computer algorithms and programming language of different numerical methods which are used to solve scientific and engineering problems | | |
| Developing the students ability to analyze and solve problems by using FORTRAN programming language | | |

9. Evaluate each of the following performance criteria of the overall program outcomes related to this course (1 being the least useful and 5 being the most useful).

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| Understand the syntax and structure of the programming language | |
| Analyze a problem and develop an algorithm | |
| Test, compile, debug, and verify the program | |
| Develop practical programming skills in procedural, nonprocedural, logic, functional | |
| Design a program to meet requirements of comprehensive examples | |
| Write appropriate program documentation and report | |

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| 10. How would you rate the contribution of this course in your overall petroleum/natural gas engineering education at ITU. Please just simply give a grade between 1 and 5 (1 being the least useful and 5 being the most useful). | |
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| Please provide below any comments and suggestions that you may have about the course content, instructor, course assistant, etc. |
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