Department Name: CHEMICAL ENGINEERING Semester: Spring 2011

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Course No. & Prefix | Course Name | Textbook Title | Edition | Primary Author’s Name | ISBN # |
| CHEG 1011 | Introduction to Engineering | Engineering Success | Third (2007) | Schiavone | ISBN-13: 978-0136130536 |
| CHEG 1021 | Introduction to Chemical Engineering Lab | No Textbook Required | - | - | - |
| CHEG 2003 | Economic Analysis with Technical Applications | Basics of Engineering Economy | First (2007) | Blank & Tarquin | ISBN-13: 978-0-07-340129-4 |
| CHEG 2013 | Material Science | The Science & Engineering of Materials | Sixth (2010) or Fifth (2005) | Askeland & Fulay | ISBN-13: 978-0495296027 |
| CHEG 2043 | Chemical Engineering Thermodynamics I | Introduction to Chemical Engineering Thermodynamics  | Seventh (2005) | Smith, Van Ness & Abbott | ISBN-13: 978-0073104454 |
| CHEG 2053 | Material & Energy Balances | Elementary Principles of Chemical Processes | Third (2005) | Felder & Rousseau | ISBN-13: 978-0471720638 |
| CHEG 2153 | Introduction to Biochemical Engineering Fundamentals | Biochemical Engineering Fundamentals | Second (1986) | Bailey & Ollis | ISBN-13: 978-0070666016  |
| CHEG 3011 | Chemical Engineering Lab I | No Textbook Required | - | - | - |
| CHEG 3013 | Heat, Mass & Momentum Transport | Fundamentals of Momentum, Heat and Mass Transfer | Fifth (2007) | Welty, Wicks & Wilson | ISBN-13: 978-0470128688 |
| CHEG 3043 | Separations | Transport Process and Separation Principles | Fourth (2003) | Geankopolis | ISBN-13: 978-0131013674 |
| CHEG 3023 | Unit Operations | Chemical Engineering Volume 6: Chemical Engineering Design | Third (1999) | Coulson & Richardson | ISBN-13: 978-0750641425 |
| CHEG 3053 | Chemical Engineering Thermodynamics II | Introduction to Chemical Engineering Thermodynamics  | Seventh (2005) | Smith, Van Ness & Abbott | ISBN-13: 978-0073104454 |
| CHEG 3063 | Kinetics & Reaction Engineering | Elements of Chemical Reaction Engineering | Fourth (2005) | Fogler | ISBN-13: 978-0130473943 |
| CHEG 3153 | Introduction to Biotechnology | Bioprocess Engineering: Basic concepts | Second (2001)  | Shuler & Kargi | ISBN: 0-13-081908-5 |
| CHEG 4011 | Chemical Engineering Lab II | No Textbook Required | - | - | - |
| CHEG 4031 | Chemical Engineering Lab III | No Textbook Required | - | - | - |
| CHEG 4033 | Process Dynamics & Control | Process Control | First (2003) | Bequette | ISBN-13: 978-0133536409 |
| CHEG 4043 | Process Design & Analysis | Analysis, Synthesis and Design of Chemical Processes | Third (2009) | Turton, Bailie, Whiting, & Shaeiwitz | ISBN-13: 978-0135129661 |
| CHEG 4103 | Special Topics: Nuclear Power Plant Systems | No textbook required | - | - | - |
| CHEG 4153 | Bioengineering | Bioprocess Engineering: Basic concepts | Second (2001)  | Shuler & Kargi | ISBN: 0-13-081908-5 |
| GNEG 5193 | Special Topics: Heat, Mass & Momentum Transport | Transport Phenomena | Second (2006) | Bird, Stewart & Lightfoot | ISBN-13: 978-0470115398 |
|  |  |  |  |  |  |