

Please refer to <http://catalog.ecc.edu/> for Course Prerequisites, Course Descriptions and Program Requirements

## FALL 2019 ONLINE COURSES

For more information about distance learning, visit the website [dl.ecc.edu](http://dl.ecc.edu)

**What is an Online Course?** In an online course, students access some or all of the course material and participate in course activities over the Internet. Students can work from any Internet-connected computer to complete assignments and interact with other students and the instructor. Textbooks are normally required in addition to the online course material. To participate in an online course, students should have regular access to a computer with an Internet connection. Students should also have some familiarity with Internet use, email use, and file management (saving files, downloading files, attaching files to email). Students are expected to work independently with instructor guidance. Online courses are not self-paced. Students are required to complete and submit assignments or participate in course activities according to an instructor-defined schedule. For information about a specific online course, contact the course instructor.

**What is a Hybrid Course?** In a hybrid course, an online component is used as a substitute for a portion of the instruction that a student would otherwise receive in a campus classroom or lab. Hybrid courses meet approximately 40 percent of the normal classroom hours on campus and students do the remainder of their work online. A hybrid course meets for the first time on the date and time identified in the course listing. The on-campus meeting requirements will be discussed during this first meeting.

For information about course orientation go to <http://www.ecc.edu/onlinecourseblueprint/>

**Important Textbook Information for Online Classes:** You can order your textbooks for any online class from any of the three ECC Bookstores ([efollett.com](http://efollett.com)).

- Ordering Online:** Please place the online order from the bookstore website that you want to pick up your books from (no need to request a transfer).
- Buying in the Store:** Your book might not be "in-stock" at all three campuses, so if you choose to purchase in-store, please contact the store first or simply order online from the store where you want to pick up the books.
- North Bookstore:** [www.eccnshop.com](http://www.eccnshop.com); **South Bookstore:** [www.eccsshop.com](http://www.eccsshop.com); **City Bookstore:** [www.ecccity.bkstr.com](http://www.ecccity.bkstr.com)

**What is EriePlus?** EriePlus courses have undergone a thorough course review process to maximize student success. Some of the features of these classes include an embedded student mentor, links to tutoring services (when available) and a course layout designed to address multiple learning styles. EriePlus courses are listed as **Erie+** in the comment section.

**What is AIM (Affordable Instructional Materials)?** The College understands that in order for students to be successful in their academic pursuits, they must have access to books and other learning materials. The largest barrier to these materials is cost. The College has designed a series of courses using instructional materials that are either in the public domain or costs less than \$30. A course listed as **AIM** in the comment section of the course schedule designates that the class meets this criteria. The College cannot guarantee the classes AIM status if there is an instructor change in the class.

### AUTOMOTIVE TECHNOLOGY

|        |       |     |                      |      |     |              |  |
|--------|-------|-----|----------------------|------|-----|--------------|--|
| 157682 | AU266 | IS1 | Service & Parts Mgt. | 3.00 | WEB | Bianchi,Gary |  |
|--------|-------|-----|----------------------|------|-----|--------------|--|

### BIOLOGY

|        |       |     |                      |      |     |                   |     |
|--------|-------|-----|----------------------|------|-----|-------------------|-----|
| 157704 | BI107 | IN1 | Human Biology        | 3.00 | WEB | Mack,Carol        |     |
| 157705 | BI107 | IN2 | Human Biology        | 3.00 | WEB | Mack,Carol        |     |
| 157706 | BI107 | IS1 | Human Biology        | 3.00 | WEB | Redlinski,Rozanne | AIM |
| 157757 | BI147 | IN1 | Survey Anat & Physio | 3.00 | WEB | Weber,Paul        |     |
| 157758 | BI147 | IS1 | Survey Anat & Physio | 3.00 | WEB | Redlinski,Rozanne | AIM |
| 157871 | BI169 | IC1 | Nutrition            | 3.00 | WEB | Musial,Timothy    | AIM |
| 157872 | BI169 | IN1 | Nutrition            | 3.00 | WEB | Mack,Carol        |     |
| 157873 | BI169 | IN2 | Nutrition            | 3.00 | WEB | Mack,Carol        |     |
| 157874 | BI169 | IS1 | Nutrition            | 3.00 | WEB | Jones,Phillip     |     |
| 160258 | BI169 | IS2 | Nutrition            | 3.00 | WEB | Higgins,Michelle  |     |
| 157905 | BI241 | IN1 | Pathophysiology      | 3.00 | WEB | Bernard,Patricia  |     |
| 157906 | BI241 | IN2 | Pathophysiology      | 3.00 | WEB | Bernard,Patricia  |     |
| 160259 | BI241 | IS1 | Pathophysiology      | 3.00 | WEB | Higgins,Michelle  |     |

### BIOTECHNOLOGICAL SCIENCE

|        |       |     |                       |      |     |                 |     |
|--------|-------|-----|-----------------------|------|-----|-----------------|-----|
| 157950 | BT101 | IN1 | Intro Biotech Science | 3.00 | WEB | Bryant,Jeanie   | AIM |
| 157952 | BT108 | IN1 | Regulatory Compliance | 3.00 | WEB | Nichols,William |     |
| 157959 | BT235 | IN1 | Validation Science    | 3.00 | WEB | Staff           |     |

### BREWING SCIENCE AND SERVICE

|        |       |     |                       |      |     |              |  |
|--------|-------|-----|-----------------------|------|-----|--------------|--|
| 159189 | HR125 | IN1 | Intro to Brewing Beer | 3.00 | WEB | Stenzel,Paul |  |
| 159191 | HR126 | IN1 | Brewing Equipment     | 3.00 | WEB | Paner,Eric   |  |
| 159193 | HR127 | IN1 | Brewing Ingredients   | 2.00 | WEB | Paner,Eric   |  |

### BUSINESS ADMINISTRATION

|        |       |     |                         |      |     |                     |  |
|--------|-------|-----|-------------------------|------|-----|---------------------|--|
| 157970 | BU120 | IN1 | Intro to Accounting     | 3.00 | WEB | Wooten,Denise       |  |
| 160293 | BU120 | IN2 | Intro to Accounting     | 3.00 | WEB | Wooten,Denise       |  |
| 157985 | BU121 | IC1 | Accounting Principles I | 4.00 | WEB | Grosjean,Russell    |  |
| 157986 | BU121 | IN1 | Accounting Principles I | 4.00 | WEB | Wooten,Denise       |  |
| 157987 | BU121 | IS1 | Accounting Principles I | 4.00 | WEB | Gadikian,Maryangela |  |
| 157996 | BU122 | IC1 | Accounting Princ II     | 4.00 | WEB | Grosjean,Russell    |  |
| 157997 | BU122 | IN1 | Accounting Princ II     | 4.00 | WEB | Cannata,Louis       |  |
| 157998 | BU122 | IS1 | Accounting Princ II     | 4.00 | WEB | Gadikian,Maryangela |  |
| 158007 | BU130 | IN1 | Quant. Bus. Methods     | 3.00 | WEB | Cannata,Louis       |  |

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|---------|-------|-----|---------------------------|------|-----|--|--|--|----------------------|--------------|--|
| 158008  | BU130 | IS1 | Quant. Bus. Methods       | 3.00 | WEB |  |  |  | Gadikian, Maryangela |              |  |
| 158024  | BU131 | IN1 | Comp Appl in Business     | 3.00 | WEB |  |  |  | Kunkle, Lisa         | NEED MS 2013 |  |
| 158025  | BU131 | IN2 | Comp Appl in Business     | 3.00 | WEB |  |  |  | Kunkle, Lisa         | NEED MS 2013 |  |
| 158026  | BU131 | IS1 | Comp Appl in Business     | 3.00 | WEB |  |  |  | Wise, Shannon        |              |  |
| 158043  | BU140 | IN1 | Introduction to Business  | 3.00 | WEB |  |  |  | Darden, Lenora       |              |  |
| 158044  | BU140 | IS1 | Introduction to Business  | 3.00 | WEB |  |  |  | Aungst, Colleen      |              |  |
| 158048  | BU142 | IS1 | Business Communication    | 3.00 | WEB |  |  |  | Januszkiewicz, Jason |              |  |
| 158060  | BU151 | IN1 | Marketing I               | 3.00 | WEB |  |  |  | Bukowski, Joan       |              |  |
| 158061  | BU151 | IN2 | Marketing I               | 3.00 | WEB |  |  |  | Wooten, Denise       |              |  |
| 158062  | BU151 | IS1 | Marketing I               | 3.00 | WEB |  |  |  | Aungst, Colleen      |              |  |
| 158063* | BU221 | IS1 | Computerized Accounting   | 4.00 | WEB |  |  |  | Gadikian, Maryangela |              |  |
| 160593  | BU225 | IC1 | Intro to Income Tax       | 3.00 | WEB |  |  |  | Grosjean, Russell    |              |  |
| 158070  | BU231 | IC1 | Business Systems          | 3.00 | WEB |  |  |  | Webb, Thomas         |              |  |
| 158071* | BU231 | IS1 | Business Systems          | 3.00 | WEB |  |  |  | Wise, Shannon        |              |  |
| 158076  | BU232 | IC1 | Business Finance          | 3.00 | WEB |  |  |  | Grosjean, Russell    |              |  |
| 158077  | BU232 | IN1 | Business Finance          | 3.00 | WEB |  |  |  | Wooten, Denise       |              |  |
| 158091  | BU233 | IC1 | Consumer Finance          | 3.00 | WEB |  |  |  | Kozlowski, Kristin   |              |  |
| 158092  | BU233 | IN1 | Consumer Finance          | 3.00 | WEB |  |  |  | Darden, Lenora       |              |  |
| 158093  | BU233 | IS1 | Consumer Finance          | 3.00 | WEB |  |  |  | Hoag, Timothy        |              |  |
| 158095  | BU234 | IC1 | Investments               | 3.00 | WEB |  |  |  | Hoag, Timothy        |              |  |
| 158106  | BU240 | IN1 | Principles of Management  | 3.00 | WEB |  |  |  | Darden, Lenora       |              |  |
| 158107  | BU240 | IS1 | Principles of Management  | 3.00 | WEB |  |  |  | Aungst, Colleen      |              |  |
| 158110  | BU241 | IC1 | Organizational Behavior   | 3.00 | WEB |  |  |  | Grosjean, Russell    |              |  |
| 158111  | BU241 | IN1 | Organizational Behavior   | 3.00 | WEB |  |  |  | Bukowski, Joan       |              |  |
| 158114  | BU242 | IS1 | Human Resource Management | 3.00 | WEB |  |  |  | Januszkiewicz, Jason |              |  |
| 158117  | BU243 | IC1 | Entrepreneurship          | 3.00 | WEB |  |  |  | Kozlowski, Kristin   |              |  |
| 158123  | BU251 | IC1 | Marketing II              | 3.00 | WEB |  |  |  | Kozlowski, Kristin   |              |  |
| 158126  | BU252 | IS1 | Marketing Management      | 3.00 | WEB |  |  |  | Aungst, Colleen      |              |  |
| 158129  | BU254 | IN1 | Advertising               | 3.00 | WEB |  |  |  | Bukowski, Joan       |              |  |
| 158141  | BU261 | IC1 | Business Law I            | 3.00 | WEB |  |  |  | Kozlowski, Kristin   |              |  |
| 160294  | BU261 | IN1 | Business Law I            | 3.00 | WEB |  |  |  | Webb, Thomas         |              |  |
| 158142  | BU261 | IS1 | Business Law I            | 3.00 | WEB |  |  |  | Januszkiewicz, Jason |              |  |
| 158146  | BU262 | IC1 | Business Law II           | 3.00 | WEB |  |  |  | Kozlowski, Kristin   |              |  |
| 158147  | BU262 | IS1 | Business Law II           | 3.00 | WEB |  |  |  | Januszkiewicz, Jason |              |  |

### BUSINESS: OFFICE MANAGEMENT & ADMINISTRATION

|        |       |     |                        |      |     |  |  |  |               |     |  |
|--------|-------|-----|------------------------|------|-----|--|--|--|---------------|-----|--|
| 159707 | OF102 | IN1 | College Keyboarding    | 3.00 | WEB |  |  |  | Kunkle, Lisa  |     |  |
| 159708 | OF102 | IS1 | College Keyboarding    | 3.00 | WEB |  |  |  | Wise, Shannon | AIM |  |
| 159710 | OF160 | IN1 | Records Management     | 3.00 | WEB |  |  |  | Fisher, Lynn  |     |  |
| 159713 | OF260 | IS1 | Office Technology Mgmt | 3.00 | WEB |  |  |  | Wise, Shannon |     |  |

### CHEMISTRY

|        |       |     |                           |      |     |  |  |  |                     |                                     |  |
|--------|-------|-----|---------------------------|------|-----|--|--|--|---------------------|-------------------------------------|--|
| 158188 | CH110 | IS1 | Survey of Science         | 3.00 | WEB |  |  |  | Barton, Mark        | AIM                                 |  |
| 158192 | CH112 | IN1 | Understanding Drugs       | 3.00 | WEB |  |  |  | Devis, Patricia     |                                     |  |
| 158195 | CH116 | IN1 | Chemistry & the Environme | 3.00 | WEB |  |  |  | Pandolfino, Mary    |                                     |  |
| 158201 | CH118 | IN1 | Forensic Science          | 3.00 | WEB |  |  |  | Pandolfino, Mary    |                                     |  |
| 158202 | CH118 | IN2 | Forensic Science          | 3.00 | WEB |  |  |  | Pandolfino, Mary    |                                     |  |
| 158209 | CH140 | IC1 | College Chemistry I       | 3.00 | WEB |  |  |  | Sorrentino, Michael | 3 SEATED EXAMS ON FRIDAY AT 1:00 PM |  |
| 158239 | CH180 | IS1 | University Chemistry I    | 3.00 | WEB |  |  |  | Barton, Mark        | PROCTORED, SEATED FINAL EXAM        |  |
| 158260 | CH182 | IS1 | University Chemistry II   | 3.00 | WEB |  |  |  | Barton, Mark        |                                     |  |

### COMPUTER AND ELECTRONICS TECHNOLOGY

|         |       |     |                           |      |     |  |  |  |                 |  |  |
|---------|-------|-----|---------------------------|------|-----|--|--|--|-----------------|--|--|
| 160427  | CP130 | IS1 | Computer Concepts & Apps  | 3.00 | WEB |  |  |  | Deinzer, Gerald |  |  |
| 158338  | CP130 | IS2 | Computer Concepts & Apps  | 3.00 | WEB |  |  |  | Deinzer, Gerald |  |  |
| 160428* | CP131 | IS1 | Lab for CP 130            | 1.00 | WEB |  |  |  | Deren, Richard  |  |  |
| 158341* | CP131 | IS2 | Lab for CP 130            | 1.00 | WEB |  |  |  | Deren, Richard  |  |  |
| 158343* | CP165 | IS1 | Computer Appl for Comp Te | 2.00 | WEB |  |  |  | Deren, Richard  |  |  |
| 160429* | CP165 | IS2 | Computer Appl for Comp Te | 2.00 | WEB |  |  |  | Deren, Richard  |  |  |

### COMPUTER SCIENCE

|        |       |     |                           |      |     |  |  |  |                |  |  |
|--------|-------|-----|---------------------------|------|-----|--|--|--|----------------|--|--|
| 158458 | CS101 | IC1 | Computer Literacy         | 3.00 | WEB |  |  |  | Schmitz, Marie |  |  |
| 158459 | CS101 | IN1 | Computer Literacy         | 3.00 | WEB |  |  |  | Marino, Mark   |  |  |
| 160380 | CS103 | IN1 | Web Develop+Program Funda | 3.00 | WEB |  |  |  | Perel, Linda   |  |  |

### CRIMINAL JUSTICE

|        |       |     |                         |      |     |  |  |  |                    |  |  |
|--------|-------|-----|-------------------------|------|-----|--|--|--|--------------------|--|--|
| 158371 | CR150 | IC1 | Intro Crim Justice      | 3.00 | WEB |  |  |  | Howard, Joanne     |  |  |
| 158372 | CR150 | IN1 | Intro Crim Justice      | 3.00 | WEB |  |  |  | Kozlowski, Michael |  |  |
| 158387 | CR160 | IC1 | Criminology             | 3.00 | WEB |  |  |  | Morgan, William    |  |  |
| 158388 | CR160 | IN1 | Criminology             | 3.00 | WEB |  |  |  | Kozlowski, Michael |  |  |
| 158401 | CR170 | IN1 | Criminal Law            | 3.00 | WEB |  |  |  | Gill, Gerald       |  |  |
| 158404 | CR200 | IS1 | Indust Ret Security     | 3.00 | WEB |  |  |  | Barnas, Kevin      |  |  |
| 158411 | CR210 | IC1 | Deviant Behavior        | 3.00 | WEB |  |  |  | Cook, Tomasina     |  |  |
| 158412 | CR210 | IN1 | Deviant Behavior        | 3.00 | WEB |  |  |  | Scalione, Julie    |  |  |
| 158420 | CR220 | IC1 | Criminal Justice Ethics | 3.00 | WEB |  |  |  | Howard, Joanne     |  |  |
| 158421 | CR220 | IS1 | Criminal Justice Ethics | 3.00 | WEB |  |  |  | Barnas, Kevin      |  |  |
| 158434 | CR250 | IC1 | Intro to Corrections    | 3.00 | WEB |  |  |  | Howard, Joanne     |  |  |
| 158439 | CR260 | IN1 | Crim Courts/Proced.     | 3.00 | WEB |  |  |  | Kozlowski, Michael |  |  |
| 160663 | CR270 | IC1 | Police Administration   | 3.00 | WEB |  |  |  | Morgan, William    |  |  |
| 158442 | CR270 | IS1 | Police Administration   | 3.00 | WEB |  |  |  | Barnas, Kevin      |  |  |
| 160664 | CR299 | IC1 | Work Study Seminar      | 3.00 | WEB |  |  |  | Cook, Tomasina     |  |  |

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## FALL 2019 ONLINE COURSES

### CULINARY ARTS

|        |       |     |                        |      |     |  |  |  |               |  |  |
|--------|-------|-----|------------------------|------|-----|--|--|--|---------------|--|--|
| 159083 | HC110 | IN1 | Hospitality Math       | 3.00 | WEB |  |  |  | Bassett, Eric |  |  |
| 159099 | HC118 | IN1 | Culinary Nutrition     | 2.00 | WEB |  |  |  | Bassett, Eric |  |  |
| 159108 | HC230 | IN1 | Food & Labor Cost Ctrl | 3.00 | WEB |  |  |  | Paner, Eric   |  |  |

### EMERGENCY MANAGEMENT

|        |       |     |                           |      |     |  |  |  |                |  |  |
|--------|-------|-----|---------------------------|------|-----|--|--|--|----------------|--|--|
| 158956 | ER210 | IC1 | Mitgation + Prep-Emerg Mg | 3.00 | WEB |  |  |  | Gonzalez, Rosa |  |  |
| 158957 | ER211 | IC1 | Disaster Response+ Recove | 3.00 | WEB |  |  |  | Gonzalez, Rosa |  |  |
| 158958 | ER212 | IC1 | Terrorism:Prevention Etc. | 3.00 | WEB |  |  |  | Gonzalez, Rosa |  |  |

### ENGLISH

|        |       |     |                           |      |     |  |  |  |                       |  |       |
|--------|-------|-----|---------------------------|------|-----|--|--|--|-----------------------|--|-------|
| 160286 | EN100 | IC1 | Comp I: Rhetorical Strate | 3.00 | WEB |  |  |  | Scalise, Leslie       |  |       |
| 160288 | EN100 | IC2 | Comp I: Rhetorical Strate | 3.00 | WEB |  |  |  | Scalise, Leslie       |  |       |
| 160486 | EN100 | IN1 | Comp I: Rhetorical Strate | 3.00 | WEB |  |  |  | Bollinger, Jacqueline |  |       |
| 160488 | EN100 | IN2 | Comp I: Rhetorical Strate | 3.00 | WEB |  |  |  | Bollinger, Jacqueline |  |       |
| 160490 | EN100 | IN3 | Comp I: Rhetorical Strate | 3.00 | WEB |  |  |  | Ertel, Mary           |  |       |
| 160445 | EN100 | IS1 | Comp I: Rhetorical Strate | 3.00 | WEB |  |  |  | Tomani, Rosemary      |  | AIM   |
| 160446 | EN100 | IS2 | Comp I: Rhetorical Strate | 3.00 | WEB |  |  |  | Tomani, Rosemary      |  | AIM   |
| 160447 | EN100 | IS3 | Comp I: Rhetorical Strate | 3.00 | WEB |  |  |  | Pulinski, Christopher |  |       |
| 160448 | EN100 | IS4 | Comp I: Rhetorical Strate | 3.00 | WEB |  |  |  | Pulinski, Christopher |  |       |
| 158880 | EN111 | IC1 | Comp & Interp of Lit      | 3.00 | WEB |  |  |  | Martin, Shelia        |  | AIM   |
| 158881 | EN111 | IC2 | Comp & Interp of Lit      | 3.00 | WEB |  |  |  | Phufas, Ellene        |  | AIM   |
| 158882 | EN111 | IC3 | Comp & Interp of Lit      | 3.00 | WEB |  |  |  | Martin, Shelia        |  | AIM   |
| 158883 | EN111 | IN1 | Comp & Interp of Lit      | 3.00 | WEB |  |  |  | Lacey, Brenda         |  |       |
| 158884 | EN111 | IN2 | Comp & Interp of Lit      | 3.00 | WEB |  |  |  | Lacey, Brenda         |  |       |
| 158886 | EN111 | IS1 | Comp & Interp of Lit      | 3.00 | WEB |  |  |  | Tomani, Rosemary      |  | AIM   |
| 158887 | EN111 | IS2 | Comp & Interp of Lit      | 3.00 | WEB |  |  |  | Benedict, Anne        |  |       |
| 158888 | EN111 | IS3 | Comp & Interp of Lit      | 3.00 | WEB |  |  |  | Benedict, Anne        |  |       |
| 160444 | EN114 | IS1 | Public Speaking           | 3.00 | WEB |  |  |  | Pulinski, Christopher |  | Erie+ |
| 158919 | EN140 | IN1 | Creative Writing I        | 3.00 | WEB |  |  |  | Wiley Moslow, Lisa    |  | AIM   |
| 160290 | EN215 | IC1 | Afro American Lit         | 3.00 | WEB |  |  |  | Martin, Shelia        |  |       |
| 158939 | EN225 | IS1 | Shakespeare               | 3.00 | WEB |  |  |  | Kivari, John          |  |       |
| 158941 | EN230 | IC1 | World Lit                 | 3.00 | WEB |  |  |  | Phufas, Ellene        |  | AIM   |
| 158946 | EN280 | IC1 | Literature and Film       | 3.00 | WEB |  |  |  | Phufas, Ellene        |  |       |
| 160556 | EN286 | IN1 | Contemporary Cinema       | 3.00 | WEB |  |  |  | Thomas, Aaron         |  |       |

### GENERAL STUDIES

|        |       |     |                        |      |     |  |  |  |                 |  |     |
|--------|-------|-----|------------------------|------|-----|--|--|--|-----------------|--|-----|
| 159076 | GS111 | IC1 | College Success Skills | 3.00 | WEB |  |  |  | Ingraham, Lynn  |  | AIM |
| 159077 | GS111 | IN1 | College Success Skills | 3.00 | WEB |  |  |  | Haddad, Vanessa |  | AIM |
| 159078 | GS111 | IN2 | College Success Skills | 3.00 | WEB |  |  |  | Haddad, Vanessa |  | AIM |
| 159079 | GS111 | IS1 | College Success Skills | 3.00 | WEB |  |  |  | Bobowicz, Robin |  | AIM |
| 160565 | GS299 | IN1 | Integrative Capstone   | 3.00 | WEB |  |  |  | Haddad, Vanessa |  |     |
| 160651 | GS299 | IS1 | Integrative Capstone   | 3.00 | WEB |  |  |  | Bobowicz, Robin |  |     |

### HEALTH INFORMATION TECHNOLOGY

|        |       |     |                            |      |     |  |  |  |                  |  |       |
|--------|-------|-----|----------------------------|------|-----|--|--|--|------------------|--|-------|
| 159432 | MR208 | IN1 | Health Care Reimbursement  | 3.00 | WEB |  |  |  | Zivis, Elizabeth |  | Erie+ |
| 159433 | MR209 | IN1 | Computer Systems in Health | 2.00 | WEB |  |  |  | Zivis, Elizabeth |  |       |
| 159434 | MR210 | IN1 | Lab for MR209              | 1.00 | WEB |  |  |  | Zivis, Elizabeth |  |       |

### HEALTH, WELLNESS AND PHYSICAL EDUCATION STUDIES

|        |       |     |                           |      |     |  |  |  |                 |  |     |
|--------|-------|-----|---------------------------|------|-----|--|--|--|-----------------|--|-----|
| 159213 | HT101 | IN1 | Health                    | 3.00 | WEB |  |  |  | Jenkins, Perry  |  |     |
| 159214 | HT101 | IS1 | Health                    | 3.00 | WEB |  |  |  | Hargrave, Nancy |  |     |
| 159221 | HT102 | IN1 | Drug Use & Abuse          | 3.00 | WEB |  |  |  | Jenkins, Perry  |  |     |
| 159222 | HT102 | IN2 | Drug Use & Abuse          | 3.00 | WEB |  |  |  | Bauth, Joseph   |  |     |
| 159220 | HT102 | IS1 | Drug Use & Abuse          | 3.00 | WEB |  |  |  | Hargrave, Nancy |  |     |
| 159224 | HT103 | IC1 | Community Health          | 3.00 | WEB |  |  |  | Simmeth, Pamela |  | AIM |
| 159229 | HT105 | IN1 | Personal Health           | 3.00 | WEB |  |  |  | Bauth, Joseph   |  |     |
| 159230 | HT105 | IS1 | Personal Health           | 3.00 | WEB |  |  |  | Hargrave, Nancy |  |     |
| 159231 | HT106 | IC1 | Curr Issues in Hlth       | 3.00 | WEB |  |  |  | Simmeth, Pamela |  |     |
| 160228 | HT220 | IN1 | Intro to Disease Preventi | 3.00 | WEB |  |  |  | Diapaul, Jaclyn |  | AIM |
| 159773 | PE105 | IN1 | Sports Through Media      | 3.00 | WEB |  |  |  | Bauth, Joseph   |  |     |
| 159779 | PE109 | IS1 | Intro to Exercise Science | 3.00 | WEB |  |  |  | Rave, Kristine  |  |     |
| 159783 | PE111 | IN1 | History of Sport in U.S.  | 3.00 | WEB |  |  |  | Jenkins, Perry  |  |     |
| 159806 | PE180 | IS1 | Exercise Nutrition        | 3.00 | WEB |  |  |  | Rave, Kristine  |  |     |
| 159828 | PE225 | IC1 | Intro to Coaching Sports  | 3.00 | WEB |  |  |  | Simmeth, Pamela |  |     |

### HOMELAND SECURITY

|        |       |     |                           |      |     |  |  |  |                  |  |  |
|--------|-------|-----|---------------------------|------|-----|--|--|--|------------------|--|--|
| 159209 | HS105 | IN1 | Terrorism + Hate Crimes   | 3.00 | WEB |  |  |  | Hempling, Edward |  |  |
| 159210 | HS230 | IN1 | Transport&border Security | 3.00 | WEB |  |  |  | Blosat, Gregg    |  |  |
| 159211 | HS240 | IN1 | Intro to Cybercrime       | 3.00 | WEB |  |  |  | Staff            |  |  |

### HOTEL RESTAURANT MANAGEMENT

|        |       |     |            |      |     |  |  |  |                |  |  |
|--------|-------|-----|------------|------|-----|--|--|--|----------------|--|--|
| 159201 | HR136 | IN1 | Sanitation | 2.00 | WEB |  |  |  | Parker, Yarley |  |  |
| 159202 | HR136 | IN2 | Sanitation | 2.00 | WEB |  |  |  | Parker, Yarley |  |  |

Please refer to <http://catalog.ecc.edu/> for Course Prerequisites, Course Descriptions and Program Requirements

## FALL 2019 ONLINE COURSES

### HUMANITIES

|        |       |     |                       |      |     |  |  |  |                        |     |       |
|--------|-------|-----|-----------------------|------|-----|--|--|--|------------------------|-----|-------|
| 157594 | AT280 | IC1 | Art Appreciation      | 3.00 | WEB |  |  |  | Naetzker,Nathan        | AIM |       |
| 157597 | AT281 | IN1 | Art History I         | 3.00 | WEB |  |  |  | Porter,Brian           |     |       |
| 157598 | AT282 | IC1 | Art History II        | 3.00 | WEB |  |  |  | Naetzker,Nathan        | AIM |       |
| 158611 | DT101 | IN1 | Theater Appreciation  | 3.00 | WEB |  |  |  | Michael-Lippens,Mich   | AIM | Erie+ |
| 158615 | DT103 | IN1 | Intro to Theatre      | 3.00 | WEB |  |  |  | Michael-Lippens,Mich   | AIM | Erie+ |
| 159631 | MU100 | IS1 | Exploring World Music | 3.00 | WEB |  |  |  | Aquila,Carmen          |     |       |
| 159634 | MU200 | IC1 | Fund. of Music        | 3.00 | WEB |  |  |  | Chang,Pei-Lun          | AIM |       |
| 159638 | MU210 | IS1 | Enjoyment of Music    | 3.00 | WEB |  |  |  | Aquila,Carmen          |     |       |
| 159645 | MU217 | IS1 | Hist. Pop Music       | 3.00 | WEB |  |  |  | Aquila,Carmen          | AIM |       |
| 159990 | PY100 | IC1 | Critical Thinking     | 3.00 | WEB |  |  |  | Escobar,Fabio          |     |       |
| 160567 | PY100 | IN1 | Critical Thinking     | 3.00 | WEB |  |  |  | Murray,Justin          |     |       |
| 159995 | PY101 | IC1 | Intro to Philosophy   | 3.00 | WEB |  |  |  | Escobar Plagman,Andr   |     |       |
| 160248 | PY101 | IS1 | Intro to Philosophy   | 3.00 | WEB |  |  |  | Bossman,Jacqueline     | AIM |       |
| 160000 | PY102 | IC1 | Logic                 | 3.00 | WEB |  |  |  | Escobar,Fabio          |     |       |
| 160006 | PY110 | IC1 | Ethics                | 3.00 | WEB |  |  |  | Escobar Plagman,Andrea |     |       |
| 160013 | PY111 | IC1 | Biomedical Ethics     | 3.00 | WEB |  |  |  | Escobar Plagman,Andrea |     |       |
| 160014 | PY111 | IC2 | Biomedical Ethics     | 3.00 | WEB |  |  |  | Escobar Plagman,Andrea |     |       |
| 160232 | PY111 | IC3 | Biomedical Ethics     | 3.00 | WEB |  |  |  | Escobar Plagman,Andrea |     |       |
| 160249 | PY111 | IS1 | Biomedical Ethics     | 3.00 | WEB |  |  |  | Bossman,Jacqueline     |     |       |
| 160107 | SP110 | IC1 | Elementary Spanish I  | 4.00 | WEB |  |  |  | Carlson,Deborah        |     |       |
| 160108 | SP110 | IC2 | Elementary Spanish I  | 4.00 | WEB |  |  |  | Mejia,Cristel          | AIM |       |
| 160110 | SP111 | IC1 | Elem Spanish II       | 4.00 | WEB |  |  |  | Mejia,Cristel          |     |       |
| 160115 | SP112 | IC1 | Intermed Spanish I    | 3.00 | WEB |  |  |  | Mejia,Cristel          |     |       |

### INFORMATION TECHNOLOGY

|         |       |     |                           |      |     |  |  |  |                 |     |  |
|---------|-------|-----|---------------------------|------|-----|--|--|--|-----------------|-----|--|
| 158489* | DA103 | IS1 | Intro to Info Tech        | 4.00 | WEB |  |  |  | Kowalski,Louise | AIM |  |
| 158502  | DA202 | IS1 | Legal/Ethical/Regulatory  | 3.00 | WEB |  |  |  | Kowalski,Louise |     |  |
| 158505* | DA240 | IS1 | Systems/Busin. Appl       | 4.00 | WEB |  |  |  | Kowalski,Louise |     | PRE-REQ DA 103                                   |
| 160142* | TE180 | IS1 | IT Essentials I           | 3.00 | WEB |  |  |  | McClellan,Aaron |     | MUST ENROLL IN TE181 IS1                         |
| 160145* | TE181 | IS1 | IT Essentials II          | 3.00 | WEB |  |  |  | McClellan,Aaron |     | MUST ENROLL IN TE180 IS1                         |
| 160148* | TE185 | IS1 | Network Fundamentals      | 3.00 | WEB |  |  |  | Stranz,James    |     | MUST ENROLL IN TE270 IS1                         |
| 160152* | TE270 | IS1 | LAN Switching/Wireless    | 3.00 | WEB |  |  |  | Stranz,James    |     | MUST ENROLL IN TE185 IS1                         |
| 160250* | TE271 | IS1 | Routing Protocols/Concept | 3.00 | WEB |  |  |  | Dyrek,William   |     | MUST ENROLL IN TE272 IS1 PRE-REQ TE185 AND TE270 |
| 160251* | TE272 | IS1 | Accessing the WAN         | 3.00 | WEB |  |  |  | Dyrek,William   |     | MUST ENROLL IN TE271 IS1 PRE-REQ TE185 AND TE270 |
| 160252* | TE275 | IS1 | CCNA Security             | 3.00 | WEB |  |  |  | Avino,Peter     |     | PRE-REQ TE 185 & TE270                           |

### MATHEMATICS

|        |       |     |                           |      |     |  |  |  |                   |     |                           |
|--------|-------|-----|---------------------------|------|-----|--|--|--|-------------------|-----|---------------------------|
| 159450 | MT003 | IC1 | Pre-Algebra Review        | 3.00 | WEB |  |  |  | Richbart,Daniel   |     | NOT FOR DEGREE CREDIT AIM |
| 159451 | MT003 | IN1 | Pre-Algebra Review        | 3.00 | WEB |  |  |  | Marino,Mark       |     | NOT FOR DEGREE CREDIT     |
| 159464 | MT006 | IC1 | Basic Algebra Review      | 3.00 | WEB |  |  |  | Langdon,Erin      |     | NOT FOR DEGREE CREDIT AIM |
| 159465 | MT006 | IN1 | Basic Algebra Review      | 3.00 | WEB |  |  |  | Butler,Gail       |     | NOT FOR DEGREE CREDIT     |
| 159480 | MT013 | IC1 | Elementary Algebra        | 5.00 | WEB |  |  |  | Richbart,Daniel   |     | NOT FOR DEGREE CREDIT AIM |
| 160379 | MT013 | IN1 | Elementary Algebra        | 5.00 | WEB |  |  |  | Marino,Mark       |     | NOT FOR DEGREE CREDIT     |
| 159485 | MT111 | IC1 | Math of Dosage            | 1.00 | WEB |  |  |  | Richbart,Daniel   |     |                           |
| 159509 | MT112 | IC1 | Survey of Math            | 3.00 | WEB |  |  |  | Richbart,Daniel   | AIM | Erie+                     |
| 159510 | MT112 | IN1 | Survey of Math            | 3.00 | WEB |  |  |  | Romesser,Tracy    |     |                           |
| 159511 | MT112 | IS1 | Survey of Math            | 3.00 | WEB |  |  |  | Quinn,Colleen     | AIM |                           |
| 160292 | MT116 | IS1 | Algebra in the Real World | 3.00 | WEB |  |  |  | Doll,Colleen      | AIM | Erie+                     |
| 159533 | MT121 | IS1 | Technical Math I          | 4.00 | WEB |  |  |  | Newell,Richard    |     |                           |
| 159561 | MT125 | IC1 | College Math I            | 4.00 | WEB |  |  |  | Richbart,Daniel   | AIM | Erie+                     |
| 159562 | MT125 | IN1 | College Math I            | 4.00 | WEB |  |  |  | Kakavand,Houshang |     |                           |
| 159563 | MT125 | IS1 | College Math I            | 4.00 | WEB |  |  |  | Newell,Richard    |     |                           |
| 159570 | MT126 | IN1 | College Math II           | 4.00 | WEB |  |  |  | Kakavand,Houshang |     |                           |
| 160296 | MT126 | IS1 | College Math II           | 4.00 | WEB |  |  |  | Doll,Colleen      | AIM |                           |
| 159595 | MT143 | IC1 | Introductory Statistics I | 4.00 | WEB |  |  |  | Usinski,David     | AIM | Erie+                     |
| 159596 | MT143 | IN1 | Introductory Statistics I | 4.00 | WEB |  |  |  | Alsani,Mohammed   |     |                           |
| 159598 | MT143 | IS1 | Introductory Statistics I | 4.00 | WEB |  |  |  | Doll,Colleen      | AIM |                           |
| 159599 | MT143 | IS2 | Introductory Statistics I | 4.00 | WEB |  |  |  | Quinn,Colleen     | AIM |                           |
| 159606 | MT175 | IN1 | Survey Calculus I         | 4.00 | WEB |  |  |  | Marino,Mark       |     |                           |
| 159619 | MT181 | IC1 | Calc & Analyt I           | 4.00 | WEB |  |  |  | Usinski,David     | AIM | Erie+                     |

### MEDICAL ASSISTING

|        |       |     |                           |      |     |  |  |  |               |  |                         |
|--------|-------|-----|---------------------------|------|-----|--|--|--|---------------|--|-------------------------|
| 158480 | CW100 | IN1 | Intro to Public Health    | 3.00 | WEB |  |  |  | Bryant,Jeanie |  | ERIE+                   |
| 160652 | CW110 | IN1 | Behav/Soc Inf Public Heal | 3.00 | WEB |  |  |  | Bryant,Jeanie |  | ERIE+                   |
| 160261 | CW111 | IN1 | Global Public Health      | 3.00 | WEB |  |  |  | Bryant,Jeanie |  | ERIE+                   |
| 159341 | MA115 | IN1 | Medical Term I            | 3.00 | WEB |  |  |  | Rizzo,Barbara |  | 4 IN-CLASS SEATED EXAMS |
| 159342 | MA115 | IN2 | Medical Term I            | 3.00 | WEB |  |  |  | Rizzo,Barbara |  | 4 IN-CLASS SEATED EXAMS |
| 159350 | MA125 | IN1 | Medical Term II           | 3.00 | WEB |  |  |  | Bryant,Jeanie |  |                         |

### NANOTECHNOLOGY

|        |       |     |                         |      |     |  |  |  |                |     |  |
|--------|-------|-----|-------------------------|------|-----|--|--|--|----------------|-----|--|
| 160324 | NS100 | IN1 | Intro to Nanotechnology | 3.00 | WEB |  |  |  | Klejna,Anthony | AIM |  |
|--------|-------|-----|-------------------------|------|-----|--|--|--|----------------|-----|--|

### NUTRITION/DIETETIC

|        |       |     |                  |      |     |  |  |  |                  |  |  |
|--------|-------|-----|------------------|------|-----|--|--|--|------------------|--|--|
| 159655 | NT132 | IN1 | Nutrition Care I | 3.00 | WEB |  |  |  | Garfoot,Margaret |  |  |
|--------|-------|-----|------------------|------|-----|--|--|--|------------------|--|--|

### PARALEGAL

|        |       |     |                           |      |     |  |  |  |                     |  |                              |
|--------|-------|-----|---------------------------|------|-----|--|--|--|---------------------|--|------------------------------|
| 159741 | PA205 | IC1 | Introduction to Law       | 3.00 | WEB |  |  |  | Violanti,Louis      |  | SUNY SOCIAL SCIENCE ELECTIVE |
| 160234 | PA225 | IC1 | Law Office Mgmt for Paral | 3.00 | WEB |  |  |  | Huffnagle,Stephanie |  |                              |

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## FALL 2019 ONLINE COURSES

### PHYSICS

|        |       |     |                      |      |     |  |  |  |                     |  |  |
|--------|-------|-----|----------------------|------|-----|--|--|--|---------------------|--|--|
| 159836 | PH110 | IN1 | Contemporary Science | 3.00 | WEB |  |  |  | Xuan, Yashu         |  |  |
| 159851 | PH120 | IN1 | Environmental Sci.   | 3.00 | WEB |  |  |  | Xuan, Yashu         |  |  |
| 159852 | PH120 | IS1 | Environmental Sci.   | 3.00 | WEB |  |  |  | Trawinski, Patricia |  |  |

### SOCIAL SCIENCE

|        |       |     |                           |      |     |  |  |  |                     |  |                      |
|--------|-------|-----|---------------------------|------|-----|--|--|--|---------------------|--|----------------------|
| 157531 | AN102 | IC1 | Cult Anthropology         | 3.00 | WEB |  |  |  | Altair, Mary        |  | AIM                  |
| 157532 | AN102 | IC2 | Cult Anthropology         | 3.00 | WEB |  |  |  | Altair, Mary        |  | AIM                  |
| 158629 | EC102 | IC1 | Macroeconomics            | 3.00 | WEB |  |  |  | Steinitz, Jason     |  | AIM                  |
| 158630 | EC102 | IC2 | Macroeconomics            | 3.00 | WEB |  |  |  | Lansing, Cooper     |  |                      |
| 158631 | EC102 | IC3 | Macroeconomics            | 3.00 | WEB |  |  |  | Steinitz, Jason     |  | AIM                  |
| 158639 | EC103 | IC1 | Microeconomics            | 3.00 | WEB |  |  |  | Lansing, Cooper     |  |                      |
| 158640 | EC103 | IC2 | Microeconomics            | 3.00 | WEB |  |  |  | Lorenz, William     |  |                      |
| 158641 | EC103 | IC3 | Microeconomics            | 3.00 | WEB |  |  |  | Lansing, Cooper     |  |                      |
| 160559 | EC103 | IC4 | Microeconomics            | 3.00 | WEB |  |  |  | Lansing, Cooper     |  |                      |
| 159025 | GO101 | IC1 | American Gov't I          | 3.00 | WEB |  |  |  | Lansing, Cooper     |  |                      |
| 159026 | GO101 | IC2 | American Gov't I          | 3.00 | WEB |  |  |  | Kalu-Nwivu, Azubike |  |                      |
| 159032 | GO102 | IC1 | American Gov't II         | 3.00 | WEB |  |  |  | Bateman, Derek      |  |                      |
| 159033 | GO103 | IC1 | Internat. Political Relat | 3.00 | WEB |  |  |  | Kalu-Nwivu, Azubike |  |                      |
| 159034 | GP101 | IC1 | Intro to Physical Geograp | 3.00 | WEB |  |  |  | Steinitz, Jason     |  |                      |
| 159133 | HI100 | IC1 | Foundations of Western Ci | 3.00 | WEB |  |  |  | Sundell, Joanne     |  | AIM                  |
| 159134 | HI100 | IC2 | Foundations of Western Ci | 3.00 | WEB |  |  |  | Blair, George       |  |                      |
| 159145 | HI101 | IC1 | American History I        | 3.00 | WEB |  |  |  | Kaiser, Patricia    |  | AIM Erie+            |
| 159146 | HI101 | IC2 | American History I        | 3.00 | WEB |  |  |  | Kaiser, Patricia    |  | AIM Erie+            |
| 159147 | HI101 | IC3 | American History I        | 3.00 | WEB |  |  |  | Marcy, William      |  |                      |
| 159156 | HI102 | IC1 | American History II       | 3.00 | WEB |  |  |  | Partee, Marianne    |  |                      |
| 159157 | HI102 | IC2 | American History II       | 3.00 | WEB |  |  |  | Partee, Marianne    |  |                      |
| 160562 | HI103 | IC1 | Afro Am History           | 3.00 | WEB |  |  |  | Staff               |  |                      |
| 159167 | HI106 | IC1 | World Civilizations I     | 3.00 | WEB |  |  |  | Rudewicz, Joel      |  |                      |
| 159171 | HI108 | IC1 | American Labor History    | 3.00 | WEB |  |  |  | Blair, George       |  |                      |
| 160563 | HI241 | IC1 | Hist of World War II      | 3.00 | WEB |  |  |  | Marcy, William      |  |                      |
| 160564 | HI260 | IC1 | History of American Women | 3.00 | WEB |  |  |  | Kaiser, Patricia    |  |                      |
| 159273 | HU101 | IC1 | Human Services II         | 3.00 | WEB |  |  |  | Berkshire, Laurie   |  |                      |
| 159944 | PS100 | IC1 | General Psychology        | 3.00 | WEB |  |  |  | Kearns-Bodkin, Jill |  |                      |
| 159945 | PS100 | IC2 | General Psychology        | 3.00 | WEB |  |  |  | Crimmen, Marlene    |  | AIM                  |
| 159946 | PS100 | IC3 | General Psychology        | 3.00 | WEB |  |  |  | Harris, Justyne     |  | AIM                  |
| 159947 | PS100 | IC4 | General Psychology        | 3.00 | WEB |  |  |  | Piver, Danielle     |  |                      |
| 159948 | PS100 | IC5 | General Psychology        | 3.00 | WEB |  |  |  | Neilans, Erikson    |  | AIM                  |
| 159949 | PS100 | IC6 | General Psychology        | 3.00 | WEB |  |  |  | Kearns-Bodkin, Jill |  |                      |
| 159950 | PS100 | IC7 | General Psychology        | 3.00 | WEB |  |  |  | Harris, Justyne     |  | AIM                  |
| 159953 | PS101 | IC1 | Skills-Eff Parenting      | 3.00 | WEB |  |  |  | Altair, Mary        |  | AIM                  |
| 159965 | PS201 | IC1 | Developmental Psych.      | 3.00 | WEB |  |  |  | Kearns-Bodkin, Jill |  |                      |
| 159966 | PS201 | IC2 | Developmental Psych.      | 3.00 | WEB |  |  |  | Crimmen, Marlene    |  |                      |
| 159967 | PS201 | IC3 | Developmental Psych.      | 3.00 | WEB |  |  |  | Harris, Justyne     |  |                      |
| 159968 | PS201 | IC4 | Developmental Psych.      | 3.00 | WEB |  |  |  | Piver, Danielle     |  |                      |
| 159969 | PS201 | IC5 | Developmental Psych.      | 3.00 | WEB |  |  |  | Crimmen, Marlene    |  |                      |
| 159978 | PS202 | IC1 | Abnormal Psychology       | 3.00 | WEB |  |  |  | Kennedy, Bruce      |  |                      |
| 159979 | PS202 | IC2 | Abnormal Psychology       | 3.00 | WEB |  |  |  | Kennedy, Bruce      |  |                      |
| 159982 | PS203 | IC1 | Social Psychology         | 3.00 | WEB |  |  |  | Kearns-Bodkin, Jill |  |                      |
| 159987 | PS207 | IC1 | Child Psychology          | 3.00 | WEB |  |  |  | Crimmen, Marlene    |  |                      |
| 160560 | PS207 | IC2 | Child Psychology          | 3.00 | WEB |  |  |  | Piver, Danielle     |  |                      |
| 160089 | SO100 | IC1 | Intro to Soc I            | 3.00 | WEB |  |  |  | Steinitz, Jason     |  | AIM                  |
| 160090 | SO100 | IC2 | Intro to Soc I            | 3.00 | WEB |  |  |  | Partee, Marianne    |  | AIM                  |
| 160091 | SO100 | IC3 | Intro to Soc I            | 3.00 | WEB |  |  |  | Kalu-Nwivu, Azubike |  |                      |
| 160092 | SO100 | IC4 | Intro to Soc I            | 3.00 | WEB |  |  |  | Steinitz, Jason     |  | AIM                  |
| 160093 | SO100 | IC5 | Intro to Soc I            | 3.00 | WEB |  |  |  | Partee, Marianne    |  | AIM                  |
| 160561 | SO100 | IC6 | Intro to Soc I            | 3.00 | WEB |  |  |  | Staff               |  |                      |
| 160097 | SO202 | IC1 | Sociology of Family       | 3.00 | WEB |  |  |  | Partee, Marianne    |  |                      |
| 160098 | SO202 | IC2 | Sociology of Family       | 3.00 | WEB |  |  |  | Kalu-Nwivu, Azubike |  |                      |
| 160123 | SS102 | IC1 | Social Problems           | 3.00 | WEB |  |  |  | Kalu-Nwivu, Azubike |  |                      |
| 160124 | SS102 | IC2 | Social Problems           | 3.00 | WEB |  |  |  | Ellis, Katherine    |  | AIM                  |
| 160126 | SS203 | IC1 | Human Sexualities         | 3.00 | WEB |  |  |  | Lorenz, William     |  |                      |
| 160129 | SS205 | IC1 | Aging, Dying, & Death     | 3.00 | WEB |  |  |  | Stokes, Carl        |  | AIM                  |
| 160131 | SS210 | IC1 | Paraeducator Memb of Team | 3.00 | WEB |  |  |  | Ellis, Katherine    |  | OBSERVATION REQUIRED |
| 160136 | SS213 | IC1 | School and Society        | 3.00 | WEB |  |  |  | Ellis, Katherine    |  | OBSERVATION REQUIRED |
| 160138 | SS214 | IC1 | Exceptional Education     | 3.00 | WEB |  |  |  | Ellis, Katherine    |  | OBSERVATION REQUIRED |

### SUBSTANCE ABUSE

|        |       |     |                           |      |     |  |  |  |                  |  |  |
|--------|-------|-----|---------------------------|------|-----|--|--|--|------------------|--|--|
| 160038 | SA102 | IC1 | Behav. Patterns Chem.Depe | 3.00 | WEB |  |  |  | Greenwood, Shari |  |  |
| 160047 | SA127 | IC1 | Topics in Addiction       | 3.00 | WEB |  |  |  | Taylor, Tracey   |  |  |