

Central Community College and Doane University

Plan of Study for Physics

Catalog: 2017-2018



Date Revised: 7/3/

| Central Community College | | | Doane University | | |
|---|-------------------------------------|------------------|------------------|---|------------------|
| Course No. | Course Title | Required Credits | Course No. | Course Title | Required Credits |
| Courses to be completed at Central Community College | | | | | |
| Doane Core Connections Requirements | | | | | |
| Foundational Areas of Knowledge | | | | | |
| Community and Identity | | | | | 3 |
| ECON 2110 | Principles of Macroeconomics | 3 | ECO 203 | Macroeconomics and Literacy | 3 |
| HIST 2010 | American History I | 3 | HIS 205 | History of the United States I | 3 |
| HIST 2020 | American History 2 | 3 | HIS 206 | History of the United States 2 | 3 |
| POLS 1000 | American Government | 3 | PSI 101 | American Politics | 3 |
| PSYC 1810 | Introduction to Psychology | 3 | PSY 117 | Introduction to Psychology | 3 |
| PSYC 2890 | Developmental Psychology | 3 | PSY 259 | Lifespan Development | 3 |
| SOCI 1010 | Introduction to Sociology | 3 | SOC 109 | Introduction to Sociology | 3 |
| Mathematical Reasoning | | | | | 13 |
| MATH 1600 | Analytic Geometry and Calculus I | 5 | MTH 235 | Calculus I | 4 |
| MATH 2070 | Analytic Geometry and Calculus 2 | 5 | MTH 236 | Calculus 2 | 4 |
| MATH 2210 | Differential Equations | 3 | MTH 329 | Differential Equations | 3 |
| Rhetorical Communication | | | | | 9 |
| ENGL 1010 | English Composition | 3 | ENG 101 | Writing Seminar | 3 |
| ENGL 1020 | Writing and Research | 3 | ENG 201 | Intermediate Writing | 3 |
| SPCH 1110 | Public Speaking | 3 | CMS 210 | Public Speaking | 3 |
| Global and Cultural Context | | | | | 3 |
| BSAD 1050 | Introduction to Business | 3 | BUS 101 | Understanding the Environment of Business | 3 |
| BSAD 2450 | International Business | 3 | BUS 357 | International Marketing | 3 |
| GEOG 1400 | Cultural Geography | 3 | GEG 301 | Social-Cultural Geography | 3 |
| HIST 1010 | Western Civilization to 1700 | 3 | HIS 106 | History of Civilization 2 | 3 |
| HIST 1710 | World Civilization after 1500 | 3 | HIS 106 | History of Civilization 2 | 3 |
| PHIL 2610 | Comparative Religions | 3 | PRE 115 | Comparative Religions | 3 |
| POLS 1600 | International Relations | 3 | PSI 105 | Comparative Governments | 3 |
| SOCI 2150 | Issues of Unity and Diversity | 3 | SOC 324 | Race and Nationality | 3 |
| SPAN 1010 | Beginning Spanish I | 5 | SPA 101 | Elementary Spanish | 3 |
| SPAN 1020 | Beginning Spanish 2 | 5 | SPA 102 | Elementary Spanish | 3 |
| SPAN 2010 | Intermediate Spanish I | 3 | SPA 203 | Intermediate Spanish | 3 |
| SPAN 2020 | Intermediate Spanish 2 | 3 | SPA 204 | Intermediate Spanish | 3 |
| Scientific Perspectives | | | | | 3 |
| BIOS 1010 | General Biology | 4 | BIO 101 | Introduction to Biology | 4 |
| CHEM 1050 | Elements of Chemistry | 4 | CHM 101 | Introduction to Chemistry | 4 |
| CHEM 1090 | General Chemistry I | 4 | CHM 125 | General Chemistry I | 4 |
| PHYS 1100 | Physical Science | 4 | PHS 105 | Principles of Physical Science | 4 |
| PHYS 1410 | General Physics I | 5 | PHY 107 | Introduction Physics I | 4 |
| PHYS 2010 | Meteorology | 4 | GEO 107 | Introduction to Meteorology | 3 |
| PHYS 2110 | General Physics I with Calculus | 5 | PHY 201 | General Physics I | 4 |
| Human Creativity | | | | | 3 |
| ARTS 1010 | Introduction to Visual Arts | 3 | ART 101 | Art Appreciation | 3 |
| ARTS 1250 | Art Fundamentals | 3 | ART 101 | Art Appreciation | 3 |
| ARTS 1270 | Drawing I | 3 | ART 207 | Drawing | 3 |
| ARTS 1300 | Visual Design | 3 | ART 107 | Two-Dimensional Design | 3 |
| ARTS 1500 | Introduction to Digital Photography | 3 | ART 234 | Introduction to Digital Photography | 3 |
| ARTS 2300 | Problems in Studio-Design | 3 | ART 110 | Three-Dimensional Design | 3 |
| ARTS 2330 | Color Theory | 3 | ART 235 | Color Theory and Application | 3 |
| MART 1300 | Visual Design I | 3 | ART 107 | Two-Dimensional Design | 3 |
| MART 1320 | Photography | 3 | ART 234 | Introduction to Digital Photography | 3 |
| MUSC 1010 | Introduction to Music | 3 | FAR 103 | Introduction to Fine Arts: Music | 3 |
| MUSC 2730 | History of Rock Music | 3 | MUS 125 | History of Rock and Roll | 3 |
| THEA 1010 | Introduction to Theatre | 3 | THE 101 | Introduction to the Theatre | 3 |
| THEA 1030 | Intro to Film | 3 | ENG 210 | Film Studies | 3 |
| THEA 1730 | Acting | 3 | THE 103 | Acting I | 3 |
| In Search of Meaning and Values | | | | | 3 |

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| HIST 1000 | Western Civilization to 1700 | 3 | HIS 105 | History of Civilization I | 3 |
| HIST 1700 | World Civilization to 1500 | 3 | HIS 105 | History of Civilization I | 3 |
| PHIL 1010 | Introduction to Philosophy | 3 | PRE 110 | Philosophical Problems | 3 |
| PHIL 2650 | Introduction to Ethics | 3 | PRE 111 | Ethics | 3 |
| Liberal Arts Studies | | | | | 9 |
| 3 credits will be waived for Crete campus transfer students who will be transferring in 30+ credits. The other 6 will need to be taken at Doane. | | | | | |
| Experiential Studies | | | | | 3 |
| Service-learning, study abroad, short-term travel, internship student teaching, research or a creative production or performance | | | | | |
| Requirements for the Physics Major | | | | | 10 |
| PHYS 2110 | General Physics I with Calculus | 5 | PHY 201 | General Physics I | 4 |
| PHYS 2120 | General Physics 2 with Calculus | 5 | PHY 202 | General Physics 2 | 4 |
| Requirements for the Physics Major - Technological Entrepreneurship Emphasis | | | | | 11 |
| ACCT 1200 | Principles of Accounting I | 3 | ACC 103 | Financial Accounting | 3 |
| BSAD 2200 | Introduction to Business Law | 3 | BUS 250 | The Legal Environment of Business | 3 |
| ENTR 1050 | Introduction to Entrepreneurship | 3 | ENT 201 | Introduction to Entrepreneurship | 3 |
| ENTR 2090 | Entrepreneurship Business Plan | 3 | ENT 350 | Business Plan Development | 2 |
| Notes: | | | | | |
| 1. If a student has completed an associate degree, a maximum of 60 semester credits are accepted in transfer. | | | | | |
| 2. If a student hasn't completed an associate degree, diploma or professional certificate at a two-year college a maximum of 90 semester credits are accepted in transfer. | | | | | |