

# Central Community College and Doane University

Plan of Study for Engineering

Catalog: 2017-2018



Date Revised: 6/13/

Central Community College			Doane University		
Course No.	Course Title	Required Credits	Course No.	Course Title	Required Credits
<b>Courses to be completed at Central Community College</b>					
<b>Doane Core Connections Requirements</b>					
<b>Foundational Areas of Knowledge</b>					
<b>Community and Identity</b>					<b>3</b>
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
<b>Mathematical Reasoning</b>					<b>3</b>
MATH 1150	College Algebra	3	MTH 108	Modeling and Applications	3
MATH 1410	Pre-Calculus	5	MTH 125	Pre calculus	4
MATH 1600	Analytic Geometry and Calculus I	5	MTH 235	Calculus I	4
MATH 2040	Applied Calculus	3	MTH 115	Finite Mathematics	3
PHIL 1150	Critical and Creative Thinking	3	PHI 105	Logic and Critical Thinking	3
<b>Rhetorical Communication</b>					<b>9</b>
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
<b>Global and Cultural Context</b>					<b>3</b>
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
<b>Scientific Perspectives</b>					<b>3</b>
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
<b>Human Creativity</b>					<b>3</b>
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

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THEA 1730	Acting	3	THE 103	Acting I	3
<b>In Search of Meaning and Values</b>					<b>3</b>
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
<b>Liberal Arts Studies</b>					<b>9</b>
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.					
<b>Experiential Studies</b>					<b>3</b>
Service-learning, study abroad, short-term travel, internship student teaching, research or a creative production or performance					
<b>Requirements for the Engineering Major (Basic Math and Science Requirements)</b>					<b>27</b>
CHEM 1090	General Chemistry I	4	CHM 125	General Chemistry I	4
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	4
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
<b>Requirements for the Environmental Engineering Major</b>					<b>4</b>
CHEM 1100	General Chemistry 2	4	CHM 126	General Chemistry 2	4
<b>Notes:</b>					
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.					