

BUILDING AND CONSTRUCTION TECHNOLOGY (BCT)

Typical Curriculum

FRESHMAN YEAR

Fall Semester		Spring Semester	
BCT 150	The Built Environment, 4 Cr.	MATH 121	Linear Methods and Probability for Business, 3 Cr.
BCT 192A	Careers in BCT, 1 Cr.		
MATH 104	Algebra, Geometry and Trigonometry, 3 Cr.	ECON 103 or RES-ECON 102	Microeconomics, 4 Cr.
ENGLWP 112	Freshman Writing, 3 Cr.	PHYSICS 131	Physics, 4 Cr.
GEN-ED	4 Cr.	GEN-ED	4 Cr.
<i>Total Credits: 15</i>		<i>Total Credits: 15</i>	

SOPHOMORE YEAR

Fall Semester		Spring Semester	
BCT 211	Energy Efficient Housing, 3 Cr.	COMPSCI 105	Computer Literacy, 3 Cr.
ECON 104	Macroeconomics, 4 Cr.	PS or CHEM 110	Major PS science requirement, 4 Cr.
PS or PHYSICS 132	Major PS science requirement, 4 Cr.	GEN-ED	4 Cr.
GEN-ED	4 Cr.	Elective or Minor course	Professional Elective or Minor Course, 3 Cr.
<i>Total Credits: 15</i>		<i>Total Credits: 14</i>	

JUNIOR YEAR

Fall Semester		Spring Semester	
BCT 304	Properties of Wood, 3 Cr.	BCT 204	Construction Materials and Methods, 3 Cr.
BCT 353	Business of Building, 3 Cr.	BCT 311	Indoor Environmental Systems, 2 Cr.
MARKETNG 301	Fundamentals of Marketing, 3 Cr.	BCT 320	Intro to CAD, 3 Cr.
NRC 492A or COMM	Oral Communication / Public Speaking, 3 Cr.	NATSCI 387	Junior Year Writing, 3 Cr.
Elective or Minor course	Professional Elective or Minor Course, 3 Cr.	Elective or Minor course	Professional Elective or Minor Course, 3 Cr.
<i>Total Credits: 15</i>		<i>Total Credits: 14</i>	

SENIOR YEAR

Fall Semester		Spring Semester	
BCT 313	Light-frame Structures, 3 Cr.	BCT 314	Construction Estimating, 3 Cr.
BCT 520	Energy & Buildings, 3 Cr.	BCT 420	Advanced Topics in CAD/BIM, 3 Cr.
BCT 550	Project Management, 3 Cr.	BCT 494BI	Integrative Experience, 3 cr.
Elective	Professional Elective, 3 cr.	BCT 521	Environmental Control Systems, 4 cr.
Elective or Minor course	Professional Elective or Minor Course, 3 Cr.	BCT 530	Mechanics of Building Materials, 4 cr.
<i>Total Credit: 15</i>		<i>Total Credit: 17</i>	

Minimum of Total program credits: 120 • Details and advising contact information: <http://bct.eco.umass.edu>