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The Richard C. Goodwin College of Professional Studies

The mission of the [Goodwin College of Professional Studies](#) is to provide contemporary students with the academic foundation and practical education that meets their career aspirations and facilitates their professional and personal advancement.

While still serving a large adult, part-time student population, the College has grown into a distinct entity that creates and delivers programs that are professional and applied in nature for both full-time traditional and nontraditional students. Today, the College offers full-time and part-time programs, credit and non-credit courses, classes during the day, evening, Saturdays, and online—as well as programs designed to suit the needs of the corporate sector.

The College also provides a range of continuing adult and professional education programs, certificates of proficiency, licensing and certification test preparation, and customer contracted training. The College abides by the continuing education unit (CEU) criteria for quality education.

All Goodwin programs are unique, aligning with market and industry needs, and blending theory with practice through laboratory experiments, field trips, and solid alliances with key businesses and industries. Instruction at Goodwin is supported by a team of educators with noteworthy educational credentials and expertise, and varied industrial background.



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The Richard C. Goodwin College of Professional Studies

The College offers several degree completion options to students with busy schedules or wishing to complete previous studies.

Accelerated Degree Programs

These programs are designed for people who already have earned an associate's degree or equivalent and for working adults and professionals. The types of programs available are listed below:

- Corporate onsite degree completion
- Saturday Scholars Degree Completion Program

Part-time Evening Studies

The College offers several partnership programs with other colleges and schools at the University. These degree programs are housed in the respective day departments, and are offered in the evening for students who cannot attend classes during the day. However, many of these degree programs may require courses during the day. Detailed program descriptions and curriculum requirements may be found by visiting the College's [Part-Time Undergraduate Studies](#) web page.

Off-site Programs

The Goodwin College brings high quality Drexel courses and faculty members to your facility, offering your employees an exceptional and convenient education. Through Drexel, companies may choose to offer their employees programs and certificates at their place of work. The College works seamlessly with organizations to provide the support and training that their employees want and that management needs in order to maintain a competitive edge in their industry. A Drexel education is a benefit that makes sense for both employers and employees. It enhances an organization's reputation, improves employee retention rates, and makes for a skilled and talented workforce.

Visit <http://www.drexel.edu/goodwin/> for more information.

Drexel University and Burlington County College (BCC) programs

Drexel University and Burlington County College (BCC) have joined together to create a unique educational opportunity: Drexel at BCC. This partnership enables BCC students to earn a bachelor's degree from Drexel University while remaining on BCC's Mount Laurel campus.



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Architecture - Part-time Evening Program

Part-time Evening Curriculum

The program, offered entirely in the evening, leads to a Bachelor of Architecture degree. The program is structured into three areas of study: the studio/thesis sequence; required and elective architectural coursework; and required university coursework.

Calendar

The course of study usually takes seven years to complete, but students with transfer credits in studio design can accelerate their program. Students are expected to supplement their academic work through full-time employment in architectural offices. The studio courses and most required professional courses are offered in sequences during the fall, winter and spring quarters. Elective courses and required university courses are available during the summer quarter.]

Transfer Credits

It is possible to transfer into the architecture program at Drexel. Transfer credit for comparable courses completed at accredited institutions will be awarded if grades of C or higher have been earned. Placement and credit in studio design courses will depend on a portfolio review of the students' academic design projects. In general advanced placement in design is awarded when students have successfully completed comparable studios in B.Arch. programs or in recognized pre-architecture transfer programs.

Advisement and Departmental Regulations

Please refer to the department's General Counseling Guidelines to the Curriculum for a complete description of all departmental regulations and procedures, and for advice in selecting, sequencing, and scheduling coursework. These guidelines are available at the Office of the Department of Architecture at 3201 Arch Street.

Accreditation

The Bachelor of Architecture degree program at Drexel is accredited by the [National Architectural Accrediting Board](#) (NAAB).

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a six-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Master's degree programs may consist of a preprofessional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

Architecture vs Architectural Engineering

Because Drexel university offers two programs with "architecture" in their titles, it is useful to point out the significant differences between them:

Architects design buildings to meet people's spatial, organizational, and aesthetic needs; they also coordinate the building design process. After earning a Bachelor of Architecture Degree, graduates become registered architects by completing the required work experience and state licensing examinations.

Architectural Engineers specialize in the design of engineering systems within buildings. Architectural Engineers earn Bachelor of Science Degrees and become professional engineers with the required experience and state examinations. Students whose interests are focused on the technological and engineering aspects of buildings should review Drexel's major in [Architectural Engineering](#) offered by the College of Engineering.



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Architecture

The Part-Time Evening Program

The Part-Time Evening Program leads to a Bachelor of Architecture degree. The course of study usually takes seven years to complete, but students with transfer credits in studio design can accelerate their program. Since all courses are offered in the evening, students are expected to supplement their academic work with full-time employment in architectural offices. Please contact the Department of Architecture at 215-895-2409 for further information.



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Architecture: Part-Time Evening Program

Bachelor of Architecture Degree: 221.0 credits.

Degree Requirements

Required courses

General education requirements		Credits
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 181	Mathematical Analysis I	3.0
MATH 182	Mathematical Analysis II	3.0
MATH 183	Mathematical Analysis III	3.0
PHYS 182	Applied Physics I	3.0
PHYS 183	Applied Physics II	3.0
PHYS 184	Applied Physics III	3.0
Humanities electives*		9.0
Social science electives		9.0
Free electives		24.0

*One humanities elective should be a PHIL course addressing Ethics for Architects.

Departmental requirements		Credits
ARCH 111	Studio 1-1	3.0
ARCH 112	Studio 1-2	3.0
ARCH 113	Studio 1-3	3.0
ARCH 121	Studio 2-1	3.0
ARCH 122	Studio 2-2	3.0
ARCH 123	Studio 2-3	3.0
ARCH 231	Studio 3-1*	3.0
ARCH 232	Studio 3-2	3.0
ARCH 233	Studio 3-3	3.0
ARCH 241	Studio 4-1	4.0
ARCH 242	Studio 4-2	4.0
ARCH 243	Studio 4-3	4.0
ARCH 351	Studio 5-1	4.0

ARCH 352	Studio 5-2	4.0
ARCH 353	Studio 5-3	4.0
ARCH 361	Studio 6-1*	4.0
ARCH 362	Studio 6-2	4.0
ARCH 363	Studio 6-3	4.0
ARCH 496	Thesis I	8.0
ARCH 497	Thesis II	8.0
ARCH 498	Thesis III	8.0

*Prior to taking this course student must meet the Department of Architecture's minimum studio advancement requirements. See the Department's [Advising Guidelines](#) web page for more details.

Required professional courses		Credits
ARCH 141	Architecture and Society I	3.0
ARCH 142 WI	Architecture and Society II	3.0
ARCH 143 WI	Architecture and Society III	3.0
ARCH 150	Introduction to CADD I	4.0
ARCH 153	Introduction to CADD II	4.0
ARCH 155	Basic Architectural Drawing	3.0
ARCH 156	Graphic Communication I	3.0
ARCH 161	Architectural Construction	3.0
ARCH 261	Environmental Systems I	3.0
ARCH 262	Environmental Systems II	3.0
ARCH 263	Environmental Systems III	3.0
CIVE 261	Materials and Structural Behavior I	3.0
CIVE 262	Materials and Structural Behavior II	3.0
CIVE 263	Materials and Structural Behavior III	3.0

History and theory electives		12.0 Credits
Three or four of the following courses		
ARCH 341	Theories of Architecture I	3.0
ARCH 342	Theories of Architecture II	3.0
ARCH 343	Theories of Architecture III	3.0
ARCH 344	History of the Modern Movement I	3.0
ARCH 345	History of the Modern Movement II	3.0
ARCH 346	History of Philadelphia Architecture	3.0
ARCH 347	Summer Study Abroad (6 credits)	6.0
ARCH 348	Studies in Vernacular Architecture	3.0
ARCH 421 WI	Environmental Psychology and Design Theory	3.0
ARCH 441	Urban Design Seminar I	3.0
ARCH 442	Urban Design Seminar II	3.0
ARCH 499	Special Topics in Architecture	3.0

Professional electives		Credits
Any three of the following courses*		
ARCH 157	Graphic Communication II	3.0
ARCH 431	Architectural Programming	3.0
ARCH 432	The Development Process	3.0
ARCH 435	Management Seminar I	3.0
ARCH 436	Management Seminar II	3.0
ARCH 451	Advanced Drawing	3.0
ARCH 455	Computer Applications in Architecture I	3.0
ARCH 456	Computer Applications in Architecture II	3.0
ARCH 461	Technology Seminar I	3.0
ARCH 462	Technology Seminar II	3.0
ARCH 465	Energy and Architecture	3.0
ARCH 499	Special Topics in Architecture	3.0
CIVE 400	Structural Design I	3.0
CIVE 401	Structural Design II	3.0
CIVE 402	Structural Design III	3.0
CIVE 464	Acoustics and Noise Control in Buildings I	3.0
CMGT 462	Construction Management I	3.0
CMGT 463	Value Engineering II	3.0
CMGT 363	Estimating I	3.0

* History and theory electives taken beyond the 12 credits required can also be used to satisfy professional elective requirements.

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.



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Architecture

Bachelor of Architecture Degree: 221.0 credits

Part-time Evening Program

Recommended Plan of Study:

This curriculum format is adjustable to each student's academic situation. Transfer credit evaluation, prior architectural experience, and other considerations may restructure the student's yearly program schedule.

First year

Fall Quarter	Credits
ARCH 111 Studio 1-1	3.0
ARCH 155 Basic Architectural Drawing	3.0
ENGL 101 Expository Writing and Reading	3.0
Winter Quarter	
ARCH 112 Studio 1-2	3.0
ARCH 156 Graphic Communication I	3.0
ENGL 102 Persuasive Writing and Reading	3.0
Spring Quarter	
ARCH 113 Studio 1-3	3.0
ARCH 161 Architecture Construction	3.0
ENGL 103 Techniques of Analysis Evaluation	3.0
Summer Quarter	
ARCH 150 Introduction to CADD I	4.0
Humanities elective	3.0
Total credits	34.0

Second year

Fall Quarter	Credits
ARCH 121 Studio 2-1	3.0
ARCH 141 WI Architecture and Society I	3.0
MATH 181 Mathematical Analysis I	3.0
Winter Quarter	
ARCH 122 Studio 2-2	3.0
ARCH 142 WI Architecture and Society II	3.0
MATH 183 Mathematical Analysis II	3.0

Spring Quarter		
ARCH 123	Studio 2-3	3.0
ARCH 143 WI	Architecture and Society III	3.0
MATH 182	Mathematical Analysis III	3.0
Summer Quarter		
ARCH 153	Introduction to CADD II	4.0
	Social science elective	3.0
	Total credits	34.0

Third year

Fall Quarter		Credits
ARCH 231	Studio 3-1*	3.0
PHYS 182	Applied Physics I	3.0
	Social science elective	3.0
Winter Quarter		
ARCH 232	Studio 3-2	3.0
PHYS 183	Applied Physics II	3.0
	Humanities elective	3.0
Spring Quarter		
ARCH 233	Studio 3-3	3.0
PHYS 184	Applied Physics III	3.0
	Humanities elective	3.0
	Total credits	27.0

*Prior to taking this course student must meet the Department of Architecture's minimum studio advancement requirements. See the Department's [Advising Guidelines](#) web page for more details.

Summer Quarter		
	History/Theory elective	3.0
	Social science elective	3.0
	Free elective	3.0
	Total credits	36.0

Fourth year

Fall Quarter		Credits
ARCH 241	Studio 4-1	4.0
CIVE 261	Materials and Structural Behavior I	3.0
Winter Quarter		
ARCH 242	Studio 4-2	4.0
CIVE 262	Materials and Structural Behavior II	3.0
Spring Quarter		
ARCH 243	Studio 4-3	4.0
CIVE 263	Materials and Structural Behavior III	3.0
Summer Quarter		
	History/Theory elective	3.0
	Professional elective	3.0
	Free elective	3.0

Total credits 30.0

Fifth year

Fall Quarter		Credits
ARCH 351	Studio 5-1	4.0
ARCH 261	Environmental Systems I	3.0
Winter Quarter		
ARCH 352	Studio 5-2	4.0
ARCH 262	Environmental Systems II	3.0
Spring Quarter		
ARCH 353	Studio 5-3	4.0
ARCH 263	Environmental Systems III	3.0
Summer Quarter		
	History/Theory elective	3.0
	Professional elective	3.0
	Free elective	3.0
	Total credits	27.0

Sixth year

Fall Quarter		Credits
ARCH 361	Studio 6-1*	4.0
	Free elective	3.0
Winter Quarter		
ARCH 362	Studio 6-2	4.0
	Social science elective	3.0
Spring Quarter		
ARCH 363	Studio 6-3	4.0
PHIL	Ethics for Architects	3.0
Summer Quarter		
	Professional elective	3.0
	Free elective	3.0
	Total credits	27.0

*Prior to taking this course student must meet the Department of Architecture's minimum studio advancement requirements. See the Department's [Advising Guidelines](#) web page page for more details.

Seventh year (Thesis)

Fall Quarter		Credits
ARCH 496	Thesis I	8.0
	History/Theory elective	3.0
Winter Quarter		
ARCH 497	Thesis II	8.0
	Free elective	3.0
Spring Quarter		
ARCH 498	Thesis III	8.0



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Applied Engineering Technology

The Bachelor of Science (B.S.) degree in Applied Engineering Technology provides an integrated educational experience directed toward development of the ability to apply fundamental knowledge to the solution of practical technological problems.

All students enrolled in the program are required to take general education courses including mathematics, the sciences and liberal arts. During their sophomore year, students need to choose one of the three available concentrations, namely [electrical](#), [manufacturing](#), or [mechanical engineering](#) technology. These concentrations consist of core fundamental courses, technical electives, free electives and a three-term senior design project reflecting industrial practices.

The AET program distinguishes itself from traditional engineering programs by placing emphasis on the application of theory, by integrating most courses with laboratory experience, and by incorporating faculty with extensive industrial experience.

The AET program includes full-time and part-time enrollment options. Students pursuing the full-time option can opt for a four-year program with a six-month internship or a five-year program with an eighteen-month co-op period.

Applied engineering technology graduates are uniquely qualified to serve in a variety of functions requiring traditional and nontraditional technological skills. The program also prepares students for graduate study in a variety of fields including engineering management, business administration, and health technology.



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Applied Engineering Technology Manufacturing Engineering Technology Concentration

Bachelor of Science Degree: 187.5 credits

Required courses

Humanities and social sciences requirements	34.0 Credits
ENGL 101 Expository Writing and Reading	3.0
ENGL 102 Persuasive Writing and Reading	3.0
ENGL 103 Analytical Writing and Reading	3.0
COM 111 Introduction to Corporate Communication	3.0
COM 230 Principles of Speech	3.0
ECON 201 Microeconomics	4.0
HIST 285 Technology in Historical Perspective	3.0
PHIL 315 Engineering Ethics	3.0
Liberal studies electives	9.0

Basic Science requirements	14.5 Credits
CHEM 111 General Chemistry I	4.0
CHEM 113 Chemistry Laboratory I	1.5
PHYS 152 Physics for Life Sciences I	4.5
PHYS 153 Physics for Life Sciences II	4.5

Mathematics requirements	15.0 Credits
MATH 110 Precalculus	3.0
MATH 121 Calculus and Analytic Geometry I	4.0
MATH 122 Calculus and Analytic Geometry II	4.0
STAT 201 Statistics I	4.0

Applied Engineering Technical Core	62.0 Credits
EET 201 Circuit Analysis I	4.0
EET 202 Circuit Analysis II	4.0
EET 203 Non-Destructive Evaluation of Materials	4.0

EET 204	Introduction to Nanotechnology	4.0
EET 205	Digital Electronics with Laboratory	4.0
EET 311	Modeling of Engineering Systems	4.0
EET 319	Programmable Logic Controllers	4.0
EET 401	Applied Micro-controllers	3.0
MET 100	Graphical Communication	4.0
MET 101	Manufacturing Materials	4.0
MET 204	Quality Control	3.0
MET 205	Robotics and Mechatronics	3.0
MET 209	Fluid Power	3.0
MET 213	Applied Mechanics	4.0
MHT 205	Thermodynamics I	3.0
MHT 226	Measurement Lab	3.0
CIVE 240	Engineering Economics	3.0
INDE 370	Industrial Project Management	3.0

MET Concentration requirements **24.0 Credits**

MET 201	Introduction to Manufacturing Industries	3.0
MHT 201	Kinematics	3.0
MET 313	Machine Tool Processing	3.0
MET 316	Computer Numerical Control	3.0
MET 407	Manufacturing Processes	3.0
MET 408	Manufacturing Information Management	3.0
MET 310	Advanced Robotics/Mechatronics	3.0
MET 411	Advanced Computer Numerical Control	3.0

MET Technical electives **6.0 Credits**

Students select 6.0 credits from the following courses:

MET 301	Advanced Design Graphics	3.0
MET 402	Manufacturing Design w/CAD	3.0
MET 403	Three Dimensional Modeling	3.0
MET 404	Digital Instrumentation	3.0
MET 409	Green Manufacturing	3.0
MET 380	Special Topics in Manufacturing Engineering Technology	2.0

Capstone course requirements **9.0 Credits**

MET 421	Project Design I	3.0
MET 422	Project Design II	3.0
MET 423	Project Design III	3.0

Miscellaneous	8.0 Credits
CS 161 Introduction to Computing	3.0
EET 102 Introduction to AET	2.0
UNIV 101 The Drexel Experience	2.0
Free electives	15.0 Credits

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Recommended Plan Of Study

BS Applied Engineering Technology
5 YR UG Co-op Concentration /Manufacturing Engineering Tech

Term 1		Credits
CHEM 111	General Chemistry I	4.0
CHEM 113	General Chemistry I Laboratory	1.5
EET 102	Introduction to Applied Engineering Technology	3.0
ENGL 101	Expository Writing and Reading	3.0
MATH 110	Precalculus	3.0
PHYS 152	Physics for Life Sciences I	4.5
UNIV 101	The Drexel Experience	1.0
Term Credits		20.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
MATH 121	Calculus I	4.0
MET 100	Graphical Communication	4.0
PHYS 153	Physics for Life Sciences II	4.5
UNIV 101	The Drexel Experience	1.0
Term Credits		16.5
Term 3		Credits
CS 161	Introduction to Computing	3.0
EET 201	Circuit Analysis I	4.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 122	Calculus II	4.0
MET 101	Manufacturing Materials	4.0
Term Credits		18.0
Term 4		Credits
COM 111	Principles of Communication	3.0
EET 202	Circuit Analysis II	4.0
EET 205	Digital Electronics with Laboratory	4.0
MHT 226	Measurement Lab	3.0
STAT 201	Business Statistics I	4.0
Term Credits		18.0
Term 5		Credits
EET 203	Non-Destructive Evaluation of Materials	3.0
EET 204	Introduction to Nanotechnology	3.0
HIST 285	Technology in Historical Perspective	3.0
MET 205	Robotics and Mechatronics	3.0
MHT 205	Thermodynamics I	3.0
Term Credits		15.0
Term 6		Credits
COM 230	Techniques of Speaking	3.0
ECON 201	Economics I	4.0
EET 311	Modeling of Engineering Systems	4.0
EET 319	PLC Fundamentals	4.0
MET 213	Applied Mechanics	4.0
Term Credits		19.0
Term 7		Credits
CIVE 240	Engineering Economic Analysis	3.0

EET 401	Applied Micro-controllers	3.0
MET 204	Applied Quality Control	3.0
MET 209	Fluid Power	3.0
PHIL 315	Engineering Ethics	3.0
Term Credits		15.0
Term 8		Credits
MET 201	Introduction to Mfg Processes	3.0
MET 203	Machine Tool Processing	4.0
MHT 201	Kinematics	3.0
	Free elective	3.0
Term Credits		13.0
Term 9		Credits
INDE 370	Industrial Project Management	3.0
MET 310	Advanced Robotics and Mechatronics	3.0
MET 316	Computer Numerical Control	3.0
MET 407	Manufacturing Processes	3.0
MET 408	MFG Information Management	3.0
Term Credits		15.0
Term 10		Credits
MET 411	Advanced Computer Numerical Control	3.0
MET 421	Senior Design Project I	3.0
	Free elective	3.0
	Liberal studies elective	4.0
Term Credits		13.0
Term 11		Credits
MET 422	Senior Design Project II	3.0
	Free electives	6.0
	Liberal studies elective	3.0
	MET technical elective (See degree requirements for options)	3.0
Term Credits		15.0
Term 12		Credits
MET 423	Senior Design Project III	3.0
	Free elective	3.0
	Liberal studies elective	3.0
	MET technical elective (See degree requirements for options)	3.0
Term Credits		12.0
Total Credits (minimum)		189.5

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Applied Engineering Technology Electrical Engineering Technology Concentration

Bachelor of Science Degree: 187.5 credits

Required courses

Humanities and social sciences requirements	34.0 Credits
ENGL 101 Expository Writing and Reading	3.0
ENGL 102 Persuasive Writing and Reading	3.0
ENGL 103 Analytical Writing and Reading	3.0
COM 111 Introduction to Corporate Communication	3.0
COM 230 Principles of Speech	3.0
ECON 201 Microeconomics	4.0
HIST 285 Technology in Historical Perspective	3.0
PHIL 315 Engineering Ethics	3.0
Liberal studies electives	9.0

Basic Science requirements	14.5 Credits
CHEM 111 General Chemistry I	4.0
CHEM 113 Chemistry Laboratory I	1.5
PHYS 152 Physics for Life Sciences I	4.5
PHYS 153 Physics for Life Sciences II	4.5

Mathematics requirements	15.0 Credits
MATH 110 Precalculus	3.0
MATH 121 Calculus and Analytic Geometry I	4.0
MATH 122 Calculus and Analytic Geometry II	4.0
STAT 201 Statistics I	4.0

Applied Engineering Technical Core	62.0 Credits
EET 201 Circuit Analysis I	4.0
EET 202 Circuit Analysis II	4.0
EET 203 Non-Destructive Evaluation of Materials	4.0

EET 204	Introduction to Nanotechnology	4.0
EET 205	Digital Electronics with Laboratory	4.0
EET 311	Modeling of Engineering Systems	4.0
EET 319	Programmable Logic Controllers	4.0
EET 401	Applied Micro-controllers	3.0
MET 100	Graphical Communication	4.0
MET 101	Manufacturing Materials	4.0
MET 204	Applied Quality Control	3.0
MET 205	Automation & Computer Assisted Machine Systems	3.0
MET 104	Fluid Power	3.0
MET 103	Applied Mechanics	4.0
MHT 205	Thermodynamics I	3.0
MHT 226	Measurement Lab	3.0
CIVE 240	Engineering Economics	3.0
INDE 370	Industrial Project Management	3.0

EET Concentration requirements 26.0 Credits

EET 206	Analog Electronics I	4.0
EET 313	Signals and Systems I	4.0
EET 317	Analog Electronics II	4.0
EET 322	Energy Conversion	4.0
EET 323	Electrical Systems Design	3.0
EET 324	Power Electronics	4.0
EET 325	Microprocessors	3.0

EET Technical electives 6.0 Credits

Students select 6.0 credits from the following courses:

EET 402	Control Engineering	3.0
EET 404	Signals and Systems II	3.0
EET 406	Communications	3.0
EET 407	Power Systems	3.0
EET 409	Optical System Design	3.0
MHT 295	Plasma Laboratory	2.0

Capstone course requirements 9.0 Credits

MET 421	Project Design I	3.0
MET 422	Project Design II	3.0
MET 423	Project Design III	3.0

Miscellaneous		8.0 Credits
CS 161	Introduction to Computing	3.0
EET 102	The Drexel Experience	2.0
UNIV 101	The Drexel Experience	2.0
Free electives		13.0 Credits

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Recommended Plan Of Study

BS Applied Engineering Technology
5 YR UG Co-op Concentration /Electrical Engineering Tech.

Term 1		Credits
CHEM 111	General Chemistry I	4.0
CHEM 113	General Chemistry I Laboratory	1.5
EET 102	Introduction to Applied Engineering Technology	3.0
ENGL 101	Expository Writing and Reading	3.0
MATH 110	Precalculus	3.0
PHYS 152	Physics for Life Sciences I	4.5
UNIV 101	The Drexel Experience	1.0
Term Credits		20.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
MATH 121	Calculus I	4.0
MET 100	Graphical Communication	3.0
PHYS 153	Physics for Life Sciences II	4.5
UNIV 101	The Drexel Experience	1.0
Term Credits		15.5
Term 3		Credits
CS 161	Introduction to Computing	3.0
EET 201	Circuit Analysis I	4.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 122	Calculus II	4.0
MET 101	Manufacturing Materials	4.0
Term Credits		18.0
Term 4		Credits
COM 111	Introduction to Corporate Communication	3.0
EET 202	Circuit Analysis II	4.0
EET 205	Digital Electronics with Laboratory	4.0
MHT 226	Measurement Lab	3.0
STAT 201	Business Statistics I	4.0
Term Credits		18.0
Term 5		Credits
EET 203	Non-Destructive Evaluation of Materials	3.0
EET 204	Introduction to Nanotechnology	3.0
HIST 285	Technology in Historical Perspective	3.0
MET 205	Automation and Computer-Integrated Manufacturing	4.0
MHT 205	Thermodynamics I	3.0
Term Credits		16.0
Term 6		Credits
COM 230	Techniques of Speaking	3.0
ECON 201	Economics I	4.0
EET 311	Modeling of Engineering Systems	4.0
EET 319	Programmable Logic Controllers	4.0
MET 103	Applied Mechanics	4.0
Term Credits		19.0
Term 7		Credits
CIVE 240	Engineering Economic Analysis	3.0

EET 401	Applied Micro-controllers	3.0
MET 104	Fluid Power	4.0
MET 204	Applied Quality Control	4.0
PHIL 315	Engineering Ethics	3.0
Term Credits		17.0
Term 8		Credits
EET 206	Analog Electronics I	4.0
EET 322	Energy Conversion	4.0
EET 325	Microprocessors	3.0
	Free elective	3.0
Term Credits		14.0
Term 9		Credits
EET 313	Signals and Systems I	4.0
EET 317	Analog Electronics II	4.0
EET 323	Electrical Systems Design	3.0
INDE 370	Industrial Project Management	3.0
Term Credits		14.0
Term 10		Credits
EET 324	Power Electronics	4.0
MET 421	Senior Design Project I	3.0
	Free elective	3.0
	Liberal studies elective	3.0
Term Credits		13.0
Term 11		Credits
MET 422	Senior Design Project II	3.0
	EET technical elective (See degree requirements for options)	3.0
	Free elective	3.0
	Liberal studies elective	3.0
Term Credits		12.0
Term 12		Credits
MET 423	Senior Design Project III	3.0
	EET technical elective (See degree requirements for options)	3.0
	Free elective	2.0
	Liberal studies elective	3.0
Term Credits		11.0
Total Credits (minimum)		187.5



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Applied Engineering Technology Mechanical Engineering Technology Concentration

Bachelor of Science Degree: 187.5 credits

Required courses

Humanities and social sciences requirements	34.0 Credits
ENGL 101 Expository Writing and Reading	3.0
ENGL 102 Persuasive Writing and Reading	3.0
ENGL 103 Analytical Writing and Reading	3.0
COM 111 Introduction to Corporate Communication	3.0
COM 230 Principles of Speech	3.0
ECON 201 Microeconomics	4.0
HIST 285 Technology in Historical Perspective	3.0
PHIL 315 Engineering Ethics	3.0
Liberal studies electives	9.0

Basic Science requirements	14.5 Credits
CHEM 111 General Chemistry I	4.0
CHEM 113 Chemistry Laboratory I	1.5
PHYS 152 Physics for Life Sciences I	4.5
PHYS 153 Physics for Life Sciences II	4.5

Mathematics requirements	15.0 Credits
MATH 110 Precalculus	3.0
MATH 121 Calculus and Analytic Geometry I	4.0
MATH 122 Calculus and Analytic Geometry II	4.0
STAT 201 Statistics I	4.0

Applied Engineering Technical Core	62.0 Credits
EET 201 Circuit Analysis I	4.0
EET 202 Circuit Analysis II	4.0

EET 203	Non-Destructive Evaluation of Materials	4.0
EET 204	Introduction to Nanotechnology	4.0
EET 205	Digital Electronics with Laboratory	4.0
EET 311	Modeling of Engineering Systems	4.0
EET 319	Programmable Logic Controllers	4.0
EET 401	Applied Micro-controllers	3.0
MET 100	Graphical Communication	4.0
MET 101	Manufacturing Materials	4.0
MET 204	Applied Quality Control	3.0
MET 205	Automation & Computer Assisted Machine Systems	3.0
MET 204	Fluid Power	3.0
MET 103	Applied Mechanics	4.0
MHT 205	Thermodynamics I	3.0
MHT 226	Measurement Lab	3.0
CIVE 240	Engineering Economics	3.0
INDE 370	Industrial Project Management	3.0

MHT Concentration requirements **26.0 Credits**

MHT 201	Kinematics	3.0
MHT 206	Thermodynamics II	3.0
MHT 222	Applied Dynamics	3.0
MHT 301	Fluid Mechanics I	3.0
MHT 314	Thermo and Heat Transfer Laboratory	3.0
MHT 401	Mechanical Design I	4.0
MHT 402	Mechanical Design II	4.0
MET 313	Machine Tool Processing	3.0

EET Technical electives **6.0 Credits**

Students select 6.0 credits from the following courses:

MHT 224	Applied Dynamics II	3.0
MHT 403	Fluid Mechanics II	4.0
MHT 404	Advanced Materials	4.0
MHT 405	HVAC	4.0
MHT 295	Environmental Control Plasma Lab	2.0

Capstone course requirements **9.0 Credits**

MET 421	Project Design I	3.0
MET 422	Project Design II	3.0
MET 423	Project Design III	3.0

Miscellaneous	8.0 Credits
CS 161 Introduction to Computing	3.0
EET 102 The Drexel Experience	2.0
UNIV 101 The Drexel Experience	2.0
Free electives	13.0 Credits

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Recommended Plan Of Study

BS Applied Engineering Technology
5 YR UG Co-op Concentration /Mechanical Engineering Tech.

Term 1		Credits
CHEM 111	General Chemistry I	4.0
CHEM 113	General Chemistry I Laboratory	1.5
EET 102	Introduction to Applied Engineering Technology	3.0
ENGL 101	Expository Writing and Reading	3.0
MATH 110	Precalculus	3.0
PHYS 152	Physics for Life Sciences I	4.5
UNIV 101	The Drexel Experience	1.0
Term Credits		20.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
MATH 121	Calculus I	4.0
MET 100	Graphical Communication	4.0
PHYS 153	Physics for Life Sciences II	4.5
UNIV 101	The Drexel Experience	1.0
Term Credits		16.5
Term 3		Credits
CS 161	Introduction to Computing	3.0
EET 201	Circuit Analysis I	4.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 122	Calculus II	4.0
MET 101	Manufacturing Materials	4.0
Term Credits		18.0
Term 4		Credits
COM 111	Principles of Communication	3.0
EET 202	Circuit Analysis II	4.0
EET 205	Digital Electronics with Laboratory	4.0
MHT 226	Measurement Lab	3.0
STAT 201	Business Statistics I	4.0
Term Credits		18.0
Term 5		Credits
EET 203	Non-Destructive Evaluation of Materials	3.0
EET 204	Introduction to Nanotechnology	3.0
HIST 285	Technology in Historical Perspective	3.0
MET 205	Robotics and Mechatronics	3.0
MHT 205	Thermodynamics I	3.0
Term Credits		15.0
Term 6		Credits
COM 230	Techniques of Speaking	3.0
ECON 201	Economics I	4.0
EET 311	Modeling of Engineering Systems	4.0
EET 319	Programmable Logic Controllers	4.0
MET 103	Applied Mechanics	4.0
Term Credits		19.0
Term 7		Credits
CIVE 240	Engineering Economic Analysis	3.0

EET 401	Applied Micro-controllers	3.0
MET 204	Applied Quality Control	3.0
MET 209	Fluid Power	3.0
PHIL 315	Engineering Ethics	3.0
Term Credits		15.0
Term 8		Credits
MET 313	Machine Tool Processing	3.0
MHT 201	Kinematics	3.0
MHT 206	Thermodynamics II	3.0
MHT 222	Applied Dynamics I	3.0
MHT 301	Fluid Mechanics I	3.0
Term Credits		15.0
Term 9		Credits
INDE 370	Industrial Project Management	3.0
MHT 314	Thermo and Heat Transfer Lab	3.0
MHT 401	Mechanical Design I	4.0
	Free elective	3.0
Term Credits		13.0
Term 10		Credits
MET 421	Senior Design Project I	3.0
MHT 210	Mechanical Design II	4.0
	Free elective	4.0
	Liberal studies elective	3.0
Term Credits		14.0
Term 11		Credits
MET 422	Senior Design Project II	3.0
	Free elective	3.0
	Liberal studies elective	3.0
	MHT technical elective (See degree requirements for options)	3.0
Term Credits		12.0
Term 12		Credits
MET 423	Senior Design Project III	3.0
	Free elective	3.0
	Liberal studies elective	3.0
	MHT technical elective (See degree requirements for options)	3.0
Term Credits		12.0
Total Credits (minimum)		187.5



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Construction Management

Construction management is a dynamic profession that is a combination of art and science. While an understanding of the technical aspects of construction is extremely important, it is also essential that construction professionals have knowledge of the business and management aspects of the profession. While construction has traditionally been a very conservative industry, the increasing rate of technological development and competition in the industry serves to accelerate the development of new construction methods, equipment, materials, and management techniques. As a result of these forces, there is an increasing need for innovative and professionally competent construction professionals. Students in this program receive broad academic, technical, business, and construction management courses that are designed to produce these well-rounded construction professionals.



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Construction Management

Bachelor of Science Degree: 180.5 credits

Required courses

English requirements	9.0 Credits
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ENGL 101 Expository Writing and Reading	3.0
ENGL 102 Persuasive Writing and Reading	3.0
ENGL 103 Analytical Writing and Reading	3.0

Mathematics requirements	11.0 Credits
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MATH 101 Math Analysis I	4.0
MATH 102 Math Analysis II	4.0

Science requirements	18.5 Credits
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CHEM 101 General Chemistry I	3.5
CHEM 102 General Chemistry II	4.5
CHEM 113 Chemistry Laboratory I	1.5
PHYS 182 Applied Physics I	3.0
PHYS 183 Applied Physics II	3.0
PHYS 184 Applied Physics III	3.0

Business requirements	28.0 Credits
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ACCT 115 Financial Accounting	4.0
BLAW 201 Business Law I	4.0
ECON 201 Economics I	4.0
ECON 202 Economics II	4.0
FIN 301 Introduction to Finance	4.0
STAT 201 Statistics I	4.0
STAT 202 Statistics II	4.0

/Humanities and social science requirements **17.0 Credits**

Humanities and social science electives

Professional core requirements **82.0 Credits**

CIVE 240	Engineering Economics	3.0
CIVE 251	Engineering Surveying	3.0
CMGT 101	Introduction to Construction Management	3.0
CMGT 161	Building Materials and Construction Management I	3.0
CMGT 162	Building Materials and Construction Management II	3.0
CMGT 163	Building Materials and Construction Management III	3.0
CMGT 261	Construction Safety	3.0
CMGT 262	Building Codes	3.0
CMGT 263	Understanding Construction Drawings	3.0
CMGT 264	Construction Management of Field Operations	3.0
CMGT 265	Information Technology in Construction	3.0
CMGT 266	Building Systems I	3.0
CMGT 267	Building Systems II	3.0
CMGT 361	Contracts & Specifications I	3.0
CMGT 362	Contracts & Specifications II	3.0
CMGT 363	Estimating I	3.0
CMGT 364	Estimating II	3.0
CMGT 365	Soil Mechanics in Construction	4.0
CMGT 371	Structural Aspects in Construction I	3.0
CMGT 372	Structural Aspects in Construction II	3.0
CMGT 366	Construction Accounting and Financial Management	3.0
CMGT 461	Construction Management I	3.0
CMGT 462	Construction Management II	3.0
CMGT 463	Value Engineering I	3.0
CMGT 465	Marketing Construction Services	3.0
CMGT 467	Techniques of Project Control	4.0
CMGT 468	Real Estate Development	3.0
CMGT 469	Construction Seminar	3.0

Professional electives* **12.0 Credits**

Students select 12.0 credits from the following courses. Students may choose to take other professional electives but the permission of the Program Manager is required.

CMGT 380	Special Topics: Project Management	3.0
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CMGT 380	Special Topics: Construction Labor Relations	3.0
CMGT 451	Heavy Construction Principles and Practices	3.0
Free electives		15.0 Credits

