



# CATALOG

2025-2026

**ADDITIONAL ACADEMIC PROGRAMS**



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# Additional Academic Programs

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## Army Reserve Officers' Training Corps (ROTC)

### About the Program

The Army Reserve Officers' Training Corps established at Drexel in 1918, is an integral part of the University. Army ROTC courses are open to all students, and enrollment alone does not carry a military obligation. Students selected for the advanced course (normally pre-junior, junior, and senior years) will complete their academic and military studies concurrently, and upon graduation will commission as lieutenants in the United States Army, including the National Guard and Army Reserve. Participation in the advanced course may qualify participants to receive financial aid through a series of scholarships and co-operative education programs.

The purpose of the Army Reserve Officers' Training Corps (<https://drexel.edu/provost/offices/undergrad-education/rotc/>) program is to provide leaders of character for the United States Army. ROTC also fosters ideals of patriotism; promotes an understanding of the role of the citizen-soldier; develop character, self-discipline, leadership abilities and stimulate interest in a military career. Army ROTC is a college elective, and enrollment does not require military service. Cadets commissioning at the end of ROTC as Army Second Lieutenants are obligated to serve 4 years active duty or 6 years as a drilling member of the National Guard or Army Reserve.

Students who meet eligibility criteria may apply for on-campus 4-year, 3-year, and 2-year scholarships at Drexel. All Army ROTC scholarships at Drexel cover full tuition and fees. Additionally, Army ROTC scholarship awardees receive the following:

- Drexel University fees covered, or room and board up \$10,000 annually divided by length of term per year
- Annual textbook allowance of \$1,200.00
- Monthly living allowances of \$420.00 for 10 months
- Summer tuition assistance up to 12 credit hours excluding room and board
- Summer textbook allowance of \$400.00

The Army ROTC Military Science program consists of two levels each composed of two years of curriculum. The first level is the ROTC basic course and the second level is the ROTC advanced course. The basic course typically coincides with the student's first two years of college. The purpose of the basic course is to develop military skills and to allow the instructors an opportunity to evaluate the student's potential to become an officer. In total, the basic course consists of four or five Military Science courses and weekly attendance at Leadership Laboratories each term the cadet is in school. Except for scholarship Cadets, students participating in these courses incur no military obligation. Basic course credit may be granted to students who successfully complete a Basic Cadet Training course occurs at Fort Knox, Kentucky, between their sophomore and junior years. Prior service cadets who have completed Basic Training also receive credit for the basic course. The advanced course, taken during a student's junior and senior years, prepares students for commissioned service. The first year of instruction prepares students for the Advanced Camp at Fort Knox, Kentucky. The final year of instruction prepares students to be commissioned officers.

To enroll in the advanced course, a student must have credit for the two-year basic course, volunteer, or selected by the Professor of Military Science, and successfully complete the required screening and physical tests.

Enlisted Army Reservists and National Guard members may apply for the Simultaneous Membership Program, which permits them to serve as officer trainees with their units and receive commissions upon completion of the ROTC advanced course.

Airborne training, Air Assault training, Mountain Warfare training, Northern Warfare training, and Cadet Troop Leadership Training with a Regular Army unit are also available to select interested Cadets.

Twice per school year, Cadets are required to participate in a leadership development exercise. Exercises are two or three days in duration at Fort Dix, New Jersey, or other military installations. Field training exercises give students a chance to practice skills learned in the classroom and Leadership Laboratories. Contracted students are also required to attend Advanced Camp over summer between their Junior and Senior years. Army ROTC will work with the co-op coordinators to allow co-op Cadets to attend this training.

Uniforms worn during Leadership Laboratory periods and leadership development exercises are issued free of charge to all students enrolled in ROTC. Students are responsible for maintaining the uniforms and returning them upon commissioning or leaving the program.

### Additional Information

Further information on the scholarships and Army ROTC is available from the Drexel University ROTC Battalion (<https://drexel.edu/provost/offices/undergrad-education/rotc/>) at 267-359-6300.

### Scholarship Requirements

#### Primary References:

Army Regulation 145-1 - Senior Reserve Officer's Training Corps Program: Organization, Administration, and Training

United States Army Cadet Command (USACC) Regulation 145-1 - Army ROTC Incentives Policy USACC Pamphlet 145-1 - Army ROTC Incentives Procedures

USACC Pamphlet 145-4 - Enrollment, Retention and Disenrollment Criteria, Policy and Procedures

USACC Circular 37-1 - Financial management for USACC General Scholarship Benefit Package

Scholarship Eligibility, USACC Regulation 145-1:

• **Citizenship:**

- Scholarship applicants must be U.S. citizens or U.S. nationals prior to contracting as a scholarship Cadet. This is a statutory requirement no waivers or exceptions are authorized. "U.S. Nationals" are persons born in American Samoa and Swains Island.
- Students who hold dual citizenship must declare that when requested, they will be required to provide a statement to the Office of Personnel Management (OPM) investigator, or adjudicative authority, expressing their willingness to renounce dual citizenship. Failure to do so may result in denial of a security clearance, which is a prerequisite for commissioning, and will result in disenrollment.

• **Age:**

- Scholarship applicants must be at least **17 years** of age within the first semester/quarter in which scholarship benefits are to begin. Students will not contract until they have reached their 17th birthday.
- Scholarship applicants must be under 31 years when they commission. This age limit is determined by law; therefore, it is non-waiverable. Example: a Mission Set 25 (MS25) applicant turns 31 years old in November 2025; he/she would be ineligible for a scholarship as the applicant must be under 31 during the calendar year he/she will be commissioning.

• **Academic status:**

- Scholarship applicants must be a high school graduate or possess the equivalent certificate before September 1 of the year of the period covered.

• **Grade point Average (GPA):**

- High school unweighted GPA for four-year applicants. All others use the college GPA. The required high school unweighted Cumulative GPA (CGPA) for all high school applicants is 2.5.
- The required CGPA and current GPA for scholarship consideration are 2.5 for students who have already established a college GPA from at least -one full term of college.
- A minimum 2.5 academic current and CGPA are required for the scholarship at the time of application. The applicant must also maintain the required current and CGPA before contracting. Waivers are possible for insufficient GPAs.
- Waivers will show substantiation based on other academic achievements. Brigade Commanders have the approval authority of on-campus GPA waivers down to 2.0.
- Any waivers requested for below 2.0 GPA for on-campus applicants must go to Cadet Command for Approval. Cadet Command is the waiver approval authority for insufficient GPAs for Green to Gold and National High School Scholarship Programs applicants.
- ROTC GPA is for enrolled Cadets only. A minimum ROTC GPA of 3.0 is required for scholarship consideration. This is an eligibility requirement.

• **Medical Qualification:**

- Scholarship applicants must successfully pass a medical examination reviewed by the Department of Defense Medical Examination Review Board (DODMERB) or by medical waiver by Headquarters Cadet Command (HQCC).
- Procedures in Appendix A, reference R (located on the DODMERB document site <https://dodmerb.tricare.osd.mil/default.asp>).

• **Weight/Body Fat Standards:**

- Applicants with any prior service, active or reserve, must pass the height, weight, and body fat percentage standards in accordance with (IAW) AR 600-9.
- Applicants with no prior service must pass height, weight and body fat percentage standards IAW 600-9.
- All applicants acknowledge, upon contracting, that they will be required to meet the screening weight or body fat percentage required by the Army Weight Control Program each year.

• **Physical Aptitude, Assessment of the physical conditioning for scholarship applicants will be accomplished in the following manner:**

- ROTC Physical Fitness Assessment is for high school applicants. Cadet Command Incentives division will coordinate with the applicant's high school to have the RFPA conducted.
- All scholarship applicants must successfully complete the Army Combat Fitness Test (ACFT) to standard. Failure to do so may result in the withdrawal of scholarship.
- Freshman must successfully complete the ACFT at standard prior to December 1 of their first year or their scholarship is withdrawn
- All other scholarship applicants must complete the ACFT to standard prior to contracting.
- For scholarships beginning in the spring, the applicants must successfully complete the ACFT to standard.

• **Character:**

- Scholarship applicants must not have moral obligations or personal convictions that will prevent them from the following:
  - Supporting and defending the Constitution of the United States against all enemies, foreign and domestic.
  - Conscientiously bearing arms.
- Scholarship applicants must satisfactorily explain any record of civil conviction.

• **Academic Discipline:**

- Scholarship applicants must agree to enroll in one of the approved baccalaureate degree producing programs listed in USACC pamphlet 145-1. Emphasis within the scholarship process is on technical disciplines; i.e., engineering, physical science, and nursing
- All scholarship students will enroll in military science courses to be entitled to payment for that term. All scholarship students must be enrolled and remain enrolled full-time in order to receive scholarship benefits with the exception of their final term as an MSIV. Cadet academically and militarily aligned to complete degree requirements and commission may be paid scholarship benefits for the last term in less than full-time status.

• **Students Ineligible to Compete for a Scholarship:**

- Students who fall under one of the following categories are ineligible to compete for or receive benefits from an Army ROTC scholarship:
  - ROTC Disenrollment: Previous two and three year contracted scholarship winners who have been disenrolled after entering MSII are ineligible to compete for another scholarship until they enter the advanced course and are eligible for a 2-year scholarship
  - Non-citizens: Citizenship is not valid prior to the fall enrollment. U.S. Nationals are citizens of the U.S. for purposes of the Army ROTC
  - Civil Conviction: A student who has an adverse juvenile adjudication or who has been arrested, indicted and convicted by a civil court or military law for other than minor traffic violations (for which forfeiture of \$250.00 or higher was imposed), unless waiver is granted. The applicant must submit a request for waiver of convictions at the time of scholarship application and award of a scholarship will remain conditional until required waiver approval occurs.
  - Medically Disqualified: A Student with a known disqualifying medical condition/defect, unless proper authority has approved a medical waiver
  - Discharged from the Armed Forces: A student previously discharged from any branch of the Armed Forces with non-Waivable disqualifying reenlistment code or with one of the following types of discharges:
    - Dishonorable
    - Bad Conduct
    - Undesirable
    - Discharge under other than honorable conditions
  - Pregnant Students:
    - Pregnant students are eligible to compete for scholarships, however, they are ineligible to enroll in ROTC if pregnant.
    - Students must be medically qualified at the time of contracting. Pregnancy is a temporary medical disqualification.
    - All applicants must meet dependency requirements (AR 145-1, Chapter 3) before contracting.
    - Cadets who become pregnant after contracting will not be involuntarily disenrolled solely because of pregnancy.
  - Active Federal Service (AFS) - Students who will have 10 years or more of AFS at the time of commissioning must request a waiver.
  - Former Cadets - Students who have already completed undergraduate degree requirements under the Army ROTC program are ineligible. This only applies to students who receive their undergraduate degree at the expense of the Army ROTC. If the student earned an undergraduate degree by other means, the student is eligible to apply for a 2-year scholarship.
  - Domestic Violence - Students convicted of domestic violence are ineligible.
  - Students participating in the SMP, except as Guaranteed Reserve Forces Duty (GRFD) scholarship recipients.
- Students at community colleges, except those approved in the Formal Linkage Program which only allows 2 and 3-year scholarships
- Students with only one year remaining to obtain their baccalaureate degree are ineligible.
- **Financial Policy:**
  - Scholarship recipients are required to make a choice each term of whether their benefits will cover tuition and allowable fees (full) or a flat rate of \$10K for room and board. Cadets that select the room and board option are required to be counseled on their selection.
  - Payment of Fall term: If Fall term ends prior to December 15, and the Cadet contracts between end of Fall term and December 15, the Cadet is entitled to Fall benefits.
  - Fees: Three Rules generally apply for payment of Fees:
    - If the fee applies to all students, all the time, every year, it is payable.
    - Mandatory educational fees are those fees charged to all students attending the school.
    - If the fee is connected to a specific course that is required for degree completion in the Cadet's major or the fee is required for attendance at that college/university, it is payable. The class must be specifically required for degree completion and is not a free elective.
    - Any fee listed as an optional fee in the school catalog is capped at \$100.00 per course. Any amount that exceeds that cap is the responsibility of the Cadet. Optional means that the cadet need not incur the fee for degree completion. Students may opt whether to purchase the school or an independent policy.
    - Scholarship funds will not be used to pay identifiable fees that directly result in the purchase of laptop computers, cellular phones, personal digital assistants or other automated equipment. However, if tuition includes purchase of automated equipment which cannot be identified as a separate fee, then scholarship funds may be used to pay for the automated equipment as an integrated portion of the tuition.
    - Room and Board - Cadets may choose for the scholarship benefits to be applied toward their room and board costs. This election is made each term. A flat rate of \$10,000 annually is paid for room and board costs. The amounts are paid directly to the cadet - \$5,000 per semester or \$3,333 per quarter term.
      - If scholarship money is used towards Room and Board, State (if applicable for ARNG) Tuition Assistance (TA) may be available to use in conjunction with scholarship money to pay for tuition.
      - Federal TA may not be used in conjunction with an ROTC scholarship.
    - Book Stipend - A "flat rate" fee will be paid for books, supplies and equipment as published annually by Headquarters, United States Army Cadet Command. This is in addition to the tuition and fees or room board option.
    - Subsistence Allowance - All **contracted** cadets are authorized a stipend.
      - The subsistence allowance will begin on the date that the cadet enters the first term of college work

under the scholarship contract or on the date the Cadet meets all requirements for and is contracted as a scholarship cadet, whichever is later.

- The stipend will continue until the cadet has met all requirements for commissioning or has been disenrolled, except as what is provided by regulation, directive or law.
- Military Science level (MS) I or II Cadets receive stipend for no more than 10 months of the academic year or the actual duration of the academic year, whichever is shorter.
- MS III - IV Cadets receive stipend allowance for no more than 20 months uninterrupted except while attending Cadet Summer Training (CST) during the junior and senior years.
- MS V Cadets receive up to 10 months stipend, which continues uninterrupted after completion of the MS IV year.
- Advanced course ROTC Cadets (to include MS V) and basic course scholarship Cadets MUST be enrolled in ROTC to receive any scholarship benefits or stipend.
- Non-Reimbursable Items - The following are non-reimbursable under the scholarship contract:
  - Any educational expenses incurred prior to the beginning of the scholarship.
  - Courses for background enrichment or deficiency makeup.
  - Courses not required for the degree, unless charges for such courses can be absorbed within the normal basic tuition charges during the academic year and will not extend graduation date.
  - Course required because of changes in academic majors when such courses cannot be completed within the number of academic terms covered by the scholarship.
  - Courses taken at a school other than that at which the Cadet is enrolled for ROTC training, except in the case of a Cadet selected for scholarship that is enrolled at a Partner School.
  - Summer sessions, except as authorized.
  - Unauthorized travel.
  - Penalties or fines for late registration, when the fault of the cadet.
  - Charges for makeup examinations, violations of school rules, and the like.
  - Personal fees, such as laundry, clothes, or grooming.
  - Permits of fees associated with vehicle operation.

#### • Military Service Obligation:

- All scholarship winners who contract will be required to sign a contract which obligates them to serve in the military for a period of 8 years.
  - If selected for active duty, the lieutenant will serve a minimum of 4 years followed by service in the Army National Guard (ARNG), United States Army Reserve (USAR) or the Individual Ready Reserve (IRR).

- If selected for reserve duty, the lieutenant will serve eight years in the selected reserve, i.e., an ARNG unit or a USAR Troop Program Unit.

## Program Requirements

### Military History

|             |                                                |     |
|-------------|------------------------------------------------|-----|
| HIST 230    | United States Military History I (before 1900) | 4.0 |
| or HIST 231 | US Military History II (since 1900)            |     |
| MLSC 399    | American Military History                      | 3.0 |

### Military Science Courses

|          |                                                  |     |
|----------|--------------------------------------------------|-----|
| MLSC 101 | Basic Leadership Lab/Practicum                   | 0.0 |
| MLSC 102 | Basic Leadership Lab/Practicum                   | 0.0 |
| MLSC 103 | Basic Leadership Lab/Practicum                   | 0.0 |
| MLSC 110 | Leadership and Personal Development              | 1.0 |
| MLSC 120 | Foundations in Leadership                        | 1.0 |
| MLSC 130 | Continuing Studies: Foundations in Leadership    | 1.0 |
| MLSC 201 | Basic Leadership Lab/Practicum                   | 0.0 |
| MLSC 202 | Basic Leadership Lab/Practicum                   | 0.0 |
| MLSC 203 | Basic Leadership Lab/Practicum                   | 0.0 |
| MLSC 210 | Innovative Tactical Leadership                   | 2.0 |
| MLSC 220 | Leadership in Changing Environments              | 2.0 |
| MLSC 230 | Adaptive Team Leadership                         | 2.0 |
| MLSC 301 | Leadership Lab/Practicum                         | 0.0 |
| MLSC 302 | Leadership Lab/Practicum                         | 0.0 |
| MLSC 303 | Leadership Lab/Practicum                         | 0.0 |
| MLSC 310 | Leadership in Contact                            | 2.0 |
| MLSC 320 | Complex Team Leadership Issues                   | 2.0 |
| MLSC 330 | Military Leadership Co-op Preparation            | 2.0 |
| MLSC 401 | Leadership Lab/Practicum                         | 0.0 |
| MLSC 402 | Leadership Lab/Practicum                         | 0.0 |
| MLSC 403 | Leadership Lab/Practicum                         | 0.0 |
| MLSC 410 | Developing Adaptive Leaders                      | 2.0 |
| MLSC 420 | Leadership in Contemporary Environments          | 2.0 |
| MLSC 430 | Advanced Leadership in Contemporary Environments | 2.0 |

**Total Credits** **28.0**

## Plan of Study (4 year)

### First Year

| Fall     | Credits Winter | Credits Spring | Credits Summer | Credits  |
|----------|----------------|----------------|----------------|----------|
| MLSC 101 | 0.0 MLSC 102   | 0.0 MLSC 103   | 0.0 VACATION   |          |
| MLSC 110 | 1.0 MLSC 120   | 1.0 MLSC 130   | 1.0            |          |
|          | <b>1</b>       | <b>1</b>       | <b>1</b>       | <b>0</b> |

### Second Year

| Fall     | Credits Winter | Credits Spring | Credits Summer | Credits  |
|----------|----------------|----------------|----------------|----------|
| MLSC 201 | 0.0 MLSC 202   | 0.0 MLSC 203   | 0.0 VACATION   |          |
| MLSC 210 | 2.0 MLSC 220   | 2.0 MLSC 230   | 2.0            |          |
|          | <b>2</b>       | <b>2</b>       | <b>2</b>       | <b>0</b> |

### Third Year

| Fall     | Credits Winter | Credits Spring | Credits Summer               | Credits  |
|----------|----------------|----------------|------------------------------|----------|
| MLSC 301 | 0.0 MLSC 302   | 0.0 MLSC 303   | 0.0 Advanced Camp Attendance |          |
| MLSC 310 | 2.0 MLSC 320   | 2.0 MLSC 330   | 2.0                          |          |
|          | <b>2</b>       | <b>2</b>       | <b>2</b>                     | <b>0</b> |

### Fourth Year

| Fall     | Credits Winter | Credits Spring | Credits  |
|----------|----------------|----------------|----------|
| MLSC 401 | 0.0 MLSC 402   | 0.0 MLSC 403   | 0.0      |
| MLSC 410 | 2.0 MLSC 420   | 2.0 MLSC 430   | 2.0      |
|          | <b>2</b>       | <b>2</b>       | <b>2</b> |

**Total Credits 21**

Military History Requirement

|                                                                                                        |                                                |  |  |     |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------|--|--|-----|
| To meet commissioning requirements, students must take each of the following military history courses: |                                                |  |  |     |
| HIST 231                                                                                               | US Military History II (since 1900)            |  |  | 4.0 |
| HIST 230                                                                                               | United States Military History I (before 1900) |  |  | 4.0 |

Plan of Study (4 year, 1 co-op)

First Year

| Fall     | Credits | Winter   | Credits | Spring   | Credits | Summer   | Credits |
|----------|---------|----------|---------|----------|---------|----------|---------|
| MLSC 101 | 0.0     | MLSC 102 | 0.0     | MLSC 103 | 0.0     | VACATION |         |
| MLSC 110 | 1.0     | MLSC 120 | 1.0     | MLSC 130 | 1.0     |          |         |
| 1        |         | 1        |         | 1        |         | 0        |         |

Second Year

| Fall     | Credits | Winter   | Credits | Spring   | Credits | Summer          | Credits |
|----------|---------|----------|---------|----------|---------|-----------------|---------|
| MLSC 201 | 0.0     | MLSC 202 | 0.0     | MLSC 301 | 0.0     | SUMMER VACATION |         |
| MLSC 210 | 2.0     | MLSC 220 | 2.0     | MLSC 310 | 2.0     |                 |         |
| MLSC 230 | 2.0     |          |         |          |         |                 |         |
| 4        |         | 2        |         | 2        |         | 0               |         |

Third Year

| Fall     | Credits | Winter   | Credits | Spring          | Credits                  | Summer | Credits |
|----------|---------|----------|---------|-----------------|--------------------------|--------|---------|
| MLSC 302 | 0.0     | MLSC 303 | 0.0     | COOP EXPERIENCE | COOP EXPERIENCE (SHORT)* |        |         |
| MLSC 320 | 2.0     | MLSC 330 | 2.0     |                 | ADVANCEE CAMP ATTENDAN   |        |         |
| 2        |         | 2        |         | 0               |                          | 0      |         |

Fourth Year

| Fall     | Credits | Winter   | Credits | Spring   | Credits |
|----------|---------|----------|---------|----------|---------|
| MLSC 401 | 0.0     | MLSC 402 | 0.0     | MLSC 403 | 0.0     |
| MLSC 410 | 2.0     | MLSC 420 | 2.0     | MLSC 430 | 2.0     |
| 2        |         | 2        |         | 2        |         |

Total Credits 21

\*

SHORT COOP DUE TO ADVANCED CAMP ATTENDANCE

Military History Requirement

|                                                                                                        |                                                |  |  |     |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------|--|--|-----|
| To meet commissioning requirements, students must take each of the following military history courses: |                                                |  |  |     |
| HIST 230                                                                                               | United States Military History I (before 1900) |  |  | 4.0 |
| HIST 231                                                                                               | US Military History II (since 1900)            |  |  | 4.0 |

Plan of Study (5 year)

First Year

| Fall     | Credits | Winter   | Credits | Spring   | Credits | Summer   | Credits |
|----------|---------|----------|---------|----------|---------|----------|---------|
| MLSC 101 | 0.0     | MLSC 102 | 0.0     | MLSC 103 | 0.0     | VACATION |         |
| MLSC 110 | 1.0     | MLSC 120 | 1.0     | MLSC 130 | 1.0     |          |         |
| 1        |         | 1        |         | 1        |         | 0        |         |

Second Year

| Fall     | Credits | Winter   | Credits | Spring          | Credits         | Summer | Credits |
|----------|---------|----------|---------|-----------------|-----------------|--------|---------|
| MLSC 201 | 0.0     | MLSC 202 | 0.0     | COOP EXPERIENCE | COOP EXPERIENCE |        |         |
| MLSC 210 | 2.0     | MLSC 220 | 2.0     |                 |                 |        |         |
| 2        |         | 2        |         | 0               |                 | 0      |         |

Third Year

| Fall     | Credits | Winter   | Credits | Spring          | Credits         | Summer | Credits |
|----------|---------|----------|---------|-----------------|-----------------|--------|---------|
| MLSC 203 | 0.0     | MLSC 301 | 0.0     | COOP EXPERIENCE | COOP EXPERIENCE |        |         |
| MLSC 230 | 2.0     | MLSC 310 | 2.0     |                 |                 |        |         |
| 2        |         | 2        |         | 0               |                 | 0      |         |

Fourth Year

| Fall     | Credits | Winter   | Credits | Spring          | Credits                  | Summer | Credits |
|----------|---------|----------|---------|-----------------|--------------------------|--------|---------|
| MLSC 302 | 0.0     | MLSC 303 | 0.0     | COOP EXPERIENCE | COOP EXPERIENCE (SHORT)* |        |         |
| MLSC 320 | 2.0     | MLSC 330 | 2.0     |                 | ADVANCEE CAMP ATTENDAN   |        |         |
| 2        |         | 2        |         | 0               |                          | 0      |         |

Fifth Year

| Fall     | Credits | Winter   | Credits | Spring   | Credits |
|----------|---------|----------|---------|----------|---------|
| MLSC 401 | 0.0     | MLSC 402 | 0.0     | MLSC 403 | 0.0     |
| MLSC 410 | 2.0     | MLSC 420 | 2.0     | MLSC 430 | 2.0     |
| 2        |         | 2        |         | 2        |         |

Total Credits 21

\*

SHORT COOP DUE TO ADVANCED CAMP ATTENDANCE

Military History Requirement

|                                                                                                        |                                                |  |  |     |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------|--|--|-----|
| To meet commissioning requirements, students must take each of the following military history courses: |                                                |  |  |     |
| HIST 230                                                                                               | United States Military History I (before 1900) |  |  | 4.0 |
| HIST 231                                                                                               | US Military History II (since 1900)            |  |  | 4.0 |

Minor in Military Science

Military History

|             |                                                |     |
|-------------|------------------------------------------------|-----|
| HIST 230    | United States Military History I (before 1900) | 4.0 |
| or HIST 231 | US Military History II (since 1900)            |     |
| MLSC 399    | American Military History                      | 3.0 |

Military Science Courses

|          |                                                  |     |
|----------|--------------------------------------------------|-----|
| MLSC 101 | Basic Leadership Lab/Practicum                   | 0.0 |
| MLSC 102 | Basic Leadership Lab/Practicum                   | 0.0 |
| MLSC 103 | Basic Leadership Lab/Practicum                   | 0.0 |
| MLSC 110 | Leadership and Personal Developmnt               | 1.0 |
| MLSC 120 | Foundations in Leadership                        | 1.0 |
| MLSC 130 | Continuing Studies: Foundations in Leadership    | 1.0 |
| MLSC 201 | Basic Leadership Lab/Practicum                   | 0.0 |
| MLSC 202 | Basic Leadership Lab/Practicum                   | 0.0 |
| MLSC 203 | Basic Leadership Lab/Practicum                   | 0.0 |
| MLSC 210 | Innovative Tactical Leadership                   | 2.0 |
| MLSC 220 | Leadership in Changing Environments              | 2.0 |
| MLSC 230 | Adaptive Team Leadership                         | 2.0 |
| MLSC 301 | Leadership Lab/Practicum                         | 0.0 |
| MLSC 302 | Leadership Lab/Practicum                         | 0.0 |
| MLSC 303 | Leadership Lab/Practicum                         | 0.0 |
| MLSC 310 | Leadership in Contact                            | 2.0 |
| MLSC 320 | Complex Team Leadership Issues                   | 2.0 |
| MLSC 330 | Military Leadership Co-op Preparation            | 2.0 |
| MLSC 401 | Leadership Lab/Practicum                         | 0.0 |
| MLSC 402 | Leadership Lab/Practicum                         | 0.0 |
| MLSC 403 | Leadership Lab/Practicum                         | 0.0 |
| MLSC 410 | Developing Adaptive Leaders                      | 2.0 |
| MLSC 420 | Leadership in Contemporary Environments          | 2.0 |
| MLSC 430 | Advanced Leadership in Contemporary Environments | 2.0 |

Total Credits 28.0



## Air Force Reserve Officers' Training Corp (AFROTC)

### About the Program

Students are eligible to participate in the Air Force Reserve Officers' Training Corps (<https://sites.sju.edu/afrotc/>) (AFROTC) through a cross-enrollment agreement with St. Joseph's University. All aerospace studies courses will be held on the St. Joseph's campus. The AFROTC program enables a college student to earn a commission as an Air Force officer while concurrently satisfying requirements for their baccalaureate degree. Air Force Cadets will have required courses/training that will be completed at the St. Joseph's University campus. Please refer to their class schedule page (<https://sites.sju.edu/afrotc/afrotc-class-schedule/>) for more information.

The Department of Aerospace Studies offered through Detachment 750 at St. Joseph's University offers college students a three- or four-year curriculum leading to a commission as a Second Lieutenant in the United States Air Force (USAF). In the four-year option, a student (cadet) takes General Military Course (GMC) classes during their freshman and sophomore years, attends a four-week summer training program between their sophomore and junior years, and then takes the Professional Officer Course (POC) classes during their junior and senior years. A cadet is under no contractual obligation with the USAF until entering the POC or accepting an AFROTC scholarship. The GMC curriculum focuses on the scope, structure, organization, and history of the USAF with an emphasis on the development of airpower and its relationship to current events. The POC curriculum concentrates on the concepts and practices of leadership and management, and the role of national security forces in American society.

In addition to the academic portion of the curricula, each cadet participates in a two-hour Leadership Laboratory each week. Leadership Laboratory utilizes the cadet organization designed for the practice of leadership and management techniques.

Further information on the AFROTC program at Saint Joseph's University can be found on their website (<https://sites.sju.edu/afrotc/>), or students can contact detachment personnel directly at:

Unit Admissions Officer  
AFROTC Detachment 750  
Saint Joseph's University  
Philadelphia, PA 19131  
Phone: 610.660.3190  
Email: [rotc@sju.edu](mailto:rotc@sju.edu)

## Naval Reserve Officers' Training Corp (NROTC)

### About the Program

Students are eligible to participate in the Naval Reserve Officers' Training Corps (<http://www.vpul.upenn.edu/nrotc/>) (NROTC) through a cross-enrollment agreement with the University of Pennsylvania. All naval science courses are held on Penn's campus. The NROTC program enables a college student to earn a commission in the Navy or the Marine Corps while concurrently satisfying requirements for his or her baccalaureate degree. Scholarship and nonscholarship programs are available.

Navy-option scholarship and college program (nonscholarship) students must enroll in Naval Science (NSC) NSC 101 and NSC 102 during their freshman year, NSC 201 and NSC 202 during their sophomore year, NSC 301 and NSC 302 in their junior year, and NSC 401 and NSC 402 in their senior year. Those seeking commissions in the Marine Corps will enroll in NSC 310 and NSC 410 instead of NSC 301 and NSC 302 and NSC 401 and NSC 402.

Scholarship program students must complete one year of calculus, one year of calculus-based physics, a course in computer science, one course in American military history/national security policy, and one year of English. College program students must complete one year of college-level algebra, one year of physical science courses, one semester of a computer science course, and one year of English. Students must check with their naval science instructors to determine specific courses that fulfill the above requirements.

In addition to the above, all students are required to attend a two-hour professional laboratory period scheduled on Wednesday afternoons (no academic credit) that emphasizes military drill, physical fitness, and leadership/military topics.

For further information regarding physical and other qualifications for admission and other matters pertaining to participation in the NROTC (<http://www.vpul.upenn.edu/nrotc/>) program, you can write to the Professor of Naval Science, NROTC Unit, 417 Hollenback Center, 3000 South Street, Philadelphia, PA 19104-6399; 215-898-7436; fax: 215-573-2067.

### Plan of Study

|                         |                |
|-------------------------|----------------|
| <b>First Year</b>       |                |
| <b>Term 1</b>           | <b>Credits</b> |
| NSC 100                 | 0.0            |
| NSC 102                 | 2.0            |
|                         | <b>2</b>       |
| <b>Second Year</b>      |                |
| <b>Term 1</b>           | <b>Credits</b> |
| NSC 201                 | 2.0            |
|                         | <b>2</b>       |
| <b>Third Year</b>       |                |
| <b>Term 1</b>           | <b>Credits</b> |
| NSC 301                 | 2.0            |
| NSC 302                 | 2.0            |
|                         | <b>4</b>       |
| <b>Fourth Year</b>      |                |
| <b>Term 1</b>           | <b>Credits</b> |
| NSC 401                 | 2.0            |
| NSC 402                 | 2.0            |
|                         | <b>4</b>       |
| <b>Total Credits 12</b> |                |

## Lindy Center for Civic Engagement

Drexel University's Lindy Center for Civic Engagement fosters a culture of civic responsibility by providing programs and resources that empower Drexel students and the broader university community to expand their civic identities through engagement in mutually beneficial partnerships that lead to a more just society.



The Lindy Center for Civic Engagement focuses on four core priorities including: Community-Based Learning, Civic Leadership, Public Service, and Community Partnerships.

For more information, view the Lindy Center's webpage (<http://www.drexel.edu/lindycenter/>).

## Continuing Professional Education

### Plan Your Professional Education Journey

No matter where you are in your professional journey, gain the skills needed to stay ahead of the curve in today's global workplace with Goodwin College of Professional Studies. Through the guidance of industry experts, you learn practical, in-demand skills that can be applied immediately. Explore diverse non-credit education in fields ranging from coding and data visualization to project management and Lean Six Sigma.

What sets your professional education apart at Goodwin is the Drexel difference. Known for innovative, relevant, and experiential learning, you gain the industry insider advantage. Whether you are looking to take a self-paced course, earn a certificate, prepare for a professional exam, immerse yourself in one- or two-day workshops, or bring our training to your organization, Goodwin can create a learning pathway to fit your needs around your schedule.

### Course Offerings include:

- Industry-recognized certifications: project management and Lean Six Sigma
- In-demand professional courses: front-end web development, business analysis, Agile Scrum, cybersecurity
- Self-paced, online courses: career planning, communication, leadership, nonprofit management, digital marketing, and more

### Additional Information

To learn more about these professional education courses, go to our Continuing Professional Education (<https://drexel.edu/goodwin/academics/continuing-professional-education/>) website.

## Undergraduate Dual Admission Transfer Student Articulation Agreements

### Dual Admission Transfer Agreements with Two-Year Colleges

**Advising is required at the two-year college and Drexel University in order to approve each transfer student application.** Please use the Sample Plans of Study below as a guide for suggested coursework for articulation agreements with Drexel University.

Bucks County Community College (p. 8)

Community College of Philadelphia (<https://drexel.edu/admissions/undergrad/transfer/dual-admission/>)

Delaware County Community College (p. 9)

Lehigh Carbon Community College (p. 10)

Montgomery County Community College (p. 11)

Rowan College at Burlington County (p. 22)

Rowan College of South Jersey (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcsj/>)

Thaddeus Stevens College of Technology (p. 22)

Union County College (p. 25)

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## Dual Admission Transfer Agreements with Non-Two-Year Universities

**Advising is required at both the non-two-year university and Drexel University in order to approve each transfer student application.** Please use the Sample Plans of Study below as a guide for suggested coursework for articulation agreements with Drexel University.

Neumann University (p. 11)

## Bucks County Community College

### Degree Programs in the Close School of Entrepreneurship

- BA in Entrepreneurship and Innovation (BCCC: A.A. in Liberal Arts) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/ba-entrepreneurshipinnovation/>)

### Degree Programs in the College of Arts and Sciences

- BS in Biological Sciences (BCCC: A.S. in Biology) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-biologicalsciences/>)
- BS in Chemistry (BCCC: A.S. in Chemistry) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-chemistry/>)
- BA in Communication - Journalism Concentration (BCCC: A.A. in Communication Studies) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/ba-communication-journalism/>)
- BS in Criminology and Justice Studies - Criminal Justice Concentration (BCCC: A.A. in Criminal Justice) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-criminologyjusticestudies-criminaljustice/>)

- BA in English (BCCC: A.A. in English) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/ba-english/>)
- BA in History (BCCC: A.A. in History) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/ba-history/>)
- BS in Mathematics (BCCC: A.S. in Mathematics) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-mathematics/>)
- BS in Psychology (BCCC: A.A. in Psychology, Pre-Professional Emphasis) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-psychology/>)

## Degree Programs in the College of Business

- BS in Business Administration - Major in Accounting (BCCC: A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-ba-accounting/>)
- BS in Business Administration - Major in Finance (BCCC: A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-ba-finance/>)
- BS in Business Administration - Major in Marketing (BCCC: A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-ba-marketing/>)
- BS in Business Administration - Major in Sport Business (BCCC: A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-ba-sport-business/>)

## Degree Programs in the College of Engineering

- BS in Architectural Engineering - Mechanical Concentration (BCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/architecturalengineering-mechanicalconc/>)
- BS in Architectural Engineering - Structural Concentration (BCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-archengr-structural/>)
- BS in Chemical Engineering (BCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/chemicalengineeringbs/>)
- BS in Electrical Engineering (BCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-electricalengineering/>)
- BS in Materials Science and Engineering (BCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-materialsscience/>)
- BS in Environmental Engineering (BCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-environmentalengineering/>)

- BS in Computer Engineering (BCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-computerengineering/>)
- BS in Civil Engineering (BCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-civilengineering/>)
- BS in Mechanical Engineering (BCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/bs-mechanicalengineering/>)
- BS in Engineering Technology - Electrical Concentration (BCCC: A.S. in Engineering Technology) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/engineeringtechnology-electricalconc/>)
- BS in Engineering Technology - Mechanical Concentration (BCCC: A.S. in Engineering Technology) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/bcc/engineeringtechnology-mechanicalconc/>)

## Delaware County Community College

### Degree Programs in the Close School of Entrepreneurship

- BA in Entrepreneurship and Innovation (DCCC: A.A. in Liberal Arts) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/ba-entrepreneurshipinnovation/>)

### Degree Programs in the College of Arts and Sciences

- BS in Biological Sciences (DCCC: A.S. in Mathematics/Natural Science) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-biologicalscience/>)
- BS in Chemistry (DCCC: A.S. in Mathematics/Natural Science) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-chemistry/>)
- BA in Communication - Journalism Concentration (DCCC: A.A. in Communication Arts; Journalism Option) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/ba-communication-journalism/>)
- BS in Criminology and Justice Studies - Criminal Justice Concentration (DCCC: A.A. in Administration of Justice) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-criminologyjusticestudies-cj/>)
- BA in English (DCCC: A.A. in English) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/ba-english/>)
- BA in Global Studies (DCCC: A.A. in Global Studies) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/ba-globalstudies/>)
- BA in History (DCCC: A.A. in History) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/ba-history/>)
- BS in Mathematics (DCCC: A.S. in Mathematics/Natural Science) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-mathematics/>)

- BA in Sociology (DCCC: A.S. in Sociology) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-sociology/>)

## Degree Programs in the College of Business

- BS in Business Administration - Major in Accounting (DCCC: A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-ba-accounting/>)
- BS in Business Administration - Major in Finance (DCCC: A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-ba-finance/>)
- BS in Business Administration - Major in Marketing (DCCC: A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-ba-marketing/>)
- BS in Business Law (DCCC AS Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-ba-businesslaw/>)

## Degree Programs in the College of Engineering

- BS in Architectural Engineering - Mechanical Concentration (DCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-architecturaleng-mechanicalconc/>)
- BS in Architectural Engineering - Structural Concentration (DCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-archengr-structural/>)
- BS in Chemical Engineering (DCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-chemicalengineering/>)
- BS in Civil Engineering (DCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-civilengineering/>)
- BS in Computer Engineering (DCCC A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-computerengineering/>)
- BS in Electrical Engineering (DCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-electricalengineering/>)
- BS in Environmental Engineering (DCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-environmentalengineering/>)
- BS in Materials Science and Engineering (DCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-materialsscience-engineering/>)
- BS in Mechanical Engineering (DCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-mechanical-engineering/>)

## Degree Programs in the Goodwin College of Professional Studies

- BS in Interdisciplinary Professional Studies (DCCC: A.A. in Liberal Arts) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-interdisprofstudies/>)

## Degree Programs in the College of Nursing and Health Professions

- BS in Culinary Arts and Science (DCCC: A.A.S. in Culinary Arts) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-culinaryarts-science/>)

## Degree Programs in the School of Education

- BS in Elementary Education/PK-4 Certification (DCCC: A.A. in Early Childhood Education) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-elementaryed-pk-4/>)
- BS in Elementary Education/PK-4 Certification [PA T.E.A.C.H Subarticulation] (DCCC: A.A. in Early Childhood Education) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/dcc/bs-elementaryed-pk-4-teach/>)

## Lehigh Carbon Community College

## Degree Programs in the College of Engineering

- BS in Architectural Engineering - Mechanical Concentration (LCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/lcc/architecturalengineering-mechanicalconc/>)
- BS in Architectural Engineering - Digital Building Concentration (LCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/lcc/architecturalengineering-digitalbuildingconc/>)
- BS in Architectural Engineering - Structural Concentration (LCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/lcc/bs-archengr-structural/>)
- BS in Chemical Engineering (LCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/lcc/chemicalengineeringbs/>)
- BS in Civil Engineering (LCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/lcc/bs-civilengineering/>)
- BS in Computer Engineering (LCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/lcc/bs-computerengineering/>)
- BS in Electrical Engineering (LCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/lcc/bs-electricalengineering/>)
- BS in Environmental Engineering (LCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/lcc/bs-environmentalengineering/>)



- BS in Materials Science Engineering (LCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/lcc/bs-materialsscience/>)
- BS in Mechanical Engineering (LCCC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/lcc/bs-mechanicalengineering/>)

## Montgomery County Community College

### Degree Programs in the Close School of Entrepreneurship

- BA in Entrepreneurship and Innovation (MCCC: A.A. in Liberal Studies) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/ba-entrepreneurshipinnovation/>)

### Degree Programs in the College of Arts and Sciences

- BS in Criminology and Justice Studies - Criminal Justice Concentration (MCCC: A.S. in Criminal Justice) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-criminologyjusticestudies/>)
- BA in Environmental Studies and Sustainability (MCCC: A.S. in Environmental Studies) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/ba-environmentalstudiesandsustainability/>)
- BA in History (MCCC: A.A. in History) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/ba-history/>)
- BS in Psychology (MCCC: A.S. in Psychology) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-psychology/>)

### Degree Programs in the College of Business

- BS in Business Administration - Major in Accounting (MCCC: A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-ba-accounting/>)
- BS in Business Administration - Major in Finance (MCCC: A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-ba-finance/>)
- BS in Business Administration - Major in Marketing (MCCC: A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-ba-marketing/>)

### Degree Programs in the College of Engineering

- BS in Chemical Engineering (MCCC: A.S. in Engineering Science) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-chemicalengineering/>)
- BS in Electrical Engineering (MCCC: A.S. in Engineering Science) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-electricalengineering/>)

- BS in Environmental Engineering (MCCC: A.S. in Engineering Science) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-environmentalengineering/>)
- BS in Materials Science and Engineering (MCCC: A.S. in Engineering Science) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-materialsscience-engineering/>)
- BS in Mechanical Engineering (MCCC: A.S. in Engineering Science; Electrical or Mechanical Engineering Concentration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-mechanicalengineering/>)

### Degree Programs in the Goodwin College of Professional Studies

- BS in Interdisciplinary Professional Studies (MCC: A.A. in Liberal Studies) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-interdisprofstudies/>)

### Degree Programs in the College of Nursing and Health Professions

- BS in Culinary Arts and Science (MCCC: A.A.S. in Culinary Arts) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-culinaryartsandscience/>)

### Degree Programs in the School of Education

- BS in Elementary Education/PK-4 Certification (MCCC: A.A. in Education in the Early Years) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-elementaryed-pk-4certification/>)
- BS in Elementary Education/PK-4 Certification [PA T.E.A.C.H. Subarticulation] (MCCC: A.A. in Education in the Early Years) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/mcc/bs-elementaryed-pk-4teach/>)

## Neumann University

### Degree Programs in the College of Engineering

- BS in Computer Engineering (4COP) (Neumann University: B.S. in Mathematics/Pre-Engineering) (p. 12)
- BS in Computer Engineering (5COP) (Neumann University: B.S. in Mathematics/Pre-Engineering) (p. 13)
- BS in Electrical Engineering (4COP) (Neumann University: B.S. in Mathematics/Pre-Engineering) (p. 15)
- BS in Electrical Engineering (5COP) (Neumann University: B.S. in Mathematics/Pre-Engineering) (p. 16)
- BS in Mechanical Engineering (4COP) (Neumann University: B.S. in Mathematics/Pre-Engineering) (p. 18)
- BS in Mechanical Engineering (5COP) (Neumann University: B.S. in Mathematics/Pre-Engineering) (p. 19)

# BS in Computer Engineering

**Drexel Degree Name: B.S in Computer Engineering**

**Neumann University Degree Name: B.S in Mathematics/Pre-Engineering**

**Sample Plan of Study - First, Second & Fall Term Third Year at Neumann University**

**92 credits at Neumann University transfer over as 92 credits at Drexel**

**Please contact the Department of Electrical and Computer Engineering (<https://drexel.edu/engineering/academics/departments/electrical-computer-engineering/>) for the most current Plan of Study.**

| First Year                                         |         |                                                        |                                        |         |
|----------------------------------------------------|---------|--------------------------------------------------------|----------------------------------------|---------|
| Fall                                               | Credits | Spring                                                 | Credits Summer                         | Credits |
| At Neumann University                              |         | At Neumann University                                  | At Neumann University                  |         |
| CHEM 101 (Neumann: CHEM 107/117 [4])               | 3.5     | CHEM 102 (Neumann: CHEM 108/118 [4])                   | 4.5 PHYS 101 (Neumann: PHY130/131 [4]) | 4.0     |
| ENGL 101 (Neumann: ENG 101 [3])                    | 3.0     | ENGL 102 & ENGL 103 (Neumann: ENG 102 [3])             | 6.0                                    |         |
| Fine Arts elective (Neumann: Fine Arts Core [3])   | 3.0     | Free elective (Neumann: CIM 201 [3])                   | 4.0                                    |         |
| General Education elective (Neumann: INT 101 [1])  | 1.0     | General Education elective (Neumann: History Core [3]) | 3.0                                    |         |
| General Education elective (Neumann: THEO 104 [3]) | 3.0     | MATH 122 (Neumann: MATH 251 [3])                       | 4.0                                    |         |
| MATH 121 (Neumann: MATH 250 [3])                   | 4.0     |                                                        |                                        |         |
| 17.5                                               |         | 21.5                                                   |                                        | 4       |

| Second Year           |         |                       |                       |         |
|-----------------------|---------|-----------------------|-----------------------|---------|
| Fall                  | Credits | Spring                | Credits Summer        | Credits |
| At Neumann University |         | At Neumann University | At Neumann University |         |

|                                     |     |                                     |                                                    |     |
|-------------------------------------|-----|-------------------------------------|----------------------------------------------------|-----|
| ENGR 111 (Neumann: MATH 325 [3])    | 3.0 | COM 230 (Neumann: COM 206 [3])      | 3.0 PHYS 102 & PHYS 20: (Neumann: PHY 131/136 [4]) | 8.0 |
| ENGR 231 (Neumann: MATH 273 [3])    | 3.0 | ENGR 232 (Neumann: MATH 360 [3])    | 3.0                                                |     |
| MATH 123 (Neumann: MATH 350 [3])    | 4.0 | MATH 200 (Neumann: MATH 351 [3])    | 4.0                                                |     |
| PHIL T280 (Neumann: PHIL 102 [3])   | 3.0 | MATH 331 (Neumann: MATH 375 [3])    | 4.0                                                |     |
| TBD (Neumann: Foreign Language [3]) | 3.0 | TBD (Neumann: English Lit Core [3]) | 3.0                                                |     |
|                                     |     | TBD (Neumann: Foreign Language [3]) | 3.0                                                |     |
| 16                                  |     | 20                                  |                                                    | 8   |

| Third Year                              |                |                |                |         |
|-----------------------------------------|----------------|----------------|----------------|---------|
| Fall                                    | Credits Winter | Credits Spring | Credits Summer | Credits |
| At Neumann University                   | At Drexel      | At Drexel      | At Drexel      |         |
| ECE 361 (Neumann: MATH 372 [3])         | 4.0 ECE 101    | 1.0 COOP 101   | 1.0            |         |
| MATH 221 (Neumann: MATH 290 [3])        | 3.0 ECE 200    | 4.0 ECE 105    | 3.0            |         |
| Neumann: MATH 405 [3]                   | ECE 201        | 4.0 ECE 301    | 4.0            |         |
| Neumann: General Education elective [3] | ENGR 131       | 3.0 ECEC 201   | 3.0            |         |
| Neumann: PHIL 200-level [3]             | UNIV E101      | 1.0 ENGR 113   | 3.0            |         |
| Neumann: THEO 200-level [3]             |                |                |                |         |
| 7                                       |                | 13             |                | 14      |

| Fourth Year  |                  |                    |                |         |
|--------------|------------------|--------------------|----------------|---------|
| Fall         | Credits Winter   | Credits Spring     | Credits Summer | Credits |
| At Drexel    | At Drexel        | At Drexel          | At Drexel      |         |
| CIVC 101     | 1.0 CS 260       | 3.0 COOP EXPERIENC | COOP EXPERIENC |         |
| CS 265       | 3.0 ECE 303      | 3.0                |                |         |
| ECE 350      | 3.0 ECE elective | 3.0                |                |         |
| ECE elective | 3.0 ECEC 204     | 3.0                |                |         |
| MATH 291     | 4.0              |                    |                |         |
| 14           |                  | 12                 |                | 0       |

**Fifth Year**

| Fall                         | Credits Winter                   | Credits Spring                  | Credits   |
|------------------------------|----------------------------------|---------------------------------|-----------|
| At Drexel                    | At Drexel                        | At Drexel                       |           |
| ECE 491                      | 3.0 CE Core elective             | 3.0 ECE 493                     | 3.0       |
| ECE, ECEC 400-level elective | 3.0 ECE 492                      | 3.0 ECE, ECC 400-level elective | 3.0       |
| ECES 301                     | 4.0 ECE, ECEC 400-level elective | 3.0 Free electives              | 6.0       |
| Free elective                | 3.0 PHIL 315                     | 3.0                             |           |
|                              | <b>13</b>                        | <b>12</b>                       | <b>12</b> |

**Total Credits 184****Writing-Intensive Course Requirements**

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (<https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list>) at the University Writing Program (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/>). (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/>) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

**Transfer Credits**

To receive transfer credits, the courses must be substantially equivalent to courses offered in the desired curriculum at Drexel and students must have completed the courses with a grade of C (C=2.0) or better. The transfer courses listed should be used as a general guide and might not be acceptable for every major at the University. Drexel University makes every effort to keep this guide current, but cannot guarantee that every course will be acceptable for transfer. The number of credits a student can transfer will be determined by the academic department once the student has been accepted into the program.

**BS in Computer Engineering****Drexel Degree Name: B.S in Computer Engineering****Neumann University Degree Name: B.S in Mathematics/Pre-Engineering****Sample Plan of Study - First, Second & Fall Term Third Year at Neumann University****84 credits at Neumann University transfer over as 92 credits at Drexel**

**Please contact the** Department of Electrical and Computer Engineering (<https://drexel.edu/engineering/academics/departments/electrical-computer-engineering/>) **for the most current Plan of Study.**

| First Year                                         |             |                                                        |                                                    |          |
|----------------------------------------------------|-------------|--------------------------------------------------------|----------------------------------------------------|----------|
| Fall                                               | Credits     | Spring                                                 | Credits Summer                                     | Credits  |
| At Neumann University                              |             | At Neumann University                                  | At Neumann University                              |          |
| ENGL 101 (Neumann: ENG 101 [3])                    | 3.0         | CHEM 102 (Neumann: CHEM 108/118 [4])                   | 4.5 PHYS 101 (Neumann: PHY130/131 [4])             | 4.0      |
| CHEM 101 (Neumann: CHEM 107/117 [4])               | 3.5         | ENGL 102 & ENGL 103 (Neumann: ENG 102 [3])             | 6.0                                                |          |
| Fine Arts elective (Neumann: Fine Arts Core [3])   | 3.0         | Free elective (Neumann: CIM 201 [3])                   | 4.0                                                |          |
| General Education elective (Neumann: THEO 104 [3]) | 3.0         | General Education elective (Neumann: History Core [3]) | 3.0                                                |          |
| MATH 121 (Neumann: MATH 250 [3])                   | 4.0         | MATH 122 (Neumann: MATH 251 [3])                       | 4.0                                                |          |
| Neumann: INT 101 (1)*                              |             |                                                        |                                                    |          |
|                                                    | <b>16.5</b> |                                                        | <b>21.5</b>                                        | <b>4</b> |
| Second Year                                        |             |                                                        |                                                    |          |
| Fall                                               | Credits     | Spring                                                 | Credits Summer                                     | Credits  |
| At Neumann University                              |             | At Neumann University                                  | At Neumann University                              |          |
| ENGR 111 (Neumann: MATH 325 [3])                   | 3.0         | COM 230 (Neumann: COM 206 [3])                         | 3.0 PHYS 102 & PHYS 201 (Neumann: PHY 131/136 [4]) | 8.0      |



|                                                                                 |     |                                                                |     |
|---------------------------------------------------------------------------------|-----|----------------------------------------------------------------|-----|
| ENGR 231<br>(Neumann:<br>MATH 275<br>[3])                                       | 3.0 | ENGR 232<br>(Neumann:<br>MATH 360<br>[3])                      | 3.0 |
| General<br>Education<br>Requirement<br>(Neumann:<br>Foreign<br>Language<br>[3]) | 3.0 | Free<br>elective<br>(Neumann:<br>English Lit<br>Core [3])      | 4.0 |
| MATH 123<br>(Neumann:<br>MATH 350<br>[3])                                       | 4.0 | Free<br>elective<br>(Neumann:<br>Foreign<br>Language<br>[3])** | 4.0 |
| PHIL T280<br>(Neumann:<br>PHIL 102<br>[3])                                      | 3.0 | MATH 200<br>(Neumann:<br>MATH 351<br>[3])                      | 4.0 |
|                                                                                 |     | MATH 331<br>(Neumann:<br>MATH 375<br>[3])                      | 4.0 |
| <b>16</b>                                                                       |     | <b>22</b>                                                      |     |

| 16                                                    |         |           | 22      |                   | 8                 |
|-------------------------------------------------------|---------|-----------|---------|-------------------|-------------------|
| Third Year                                            |         |           |         |                   |                   |
| Fall                                                  | Credits | Winter    | Credits | Spring            | Credits           |
| At<br>Neumann<br>University                           |         | At Drexel |         | At Drexel         |                   |
| ECE 361<br>(Neumann:<br>MATH 372<br>[3])              | 4.0     | COOP 101  | 1.0     | COOP<br>EXPERIENC | COOP<br>EXPERIENC |
| MATH 221<br>(Neumann:<br>MATH 290<br>[3])             | 3.0     | ECE 101   | 1.0     |                   |                   |
| Neumann:<br>General<br>Education<br>elective<br>(3)** |         | ECE 200   | 4.0     |                   |                   |
| Neumann:<br>MATH 405<br>(3)**                         |         | ECE 201   | 4.0     |                   |                   |
| Neumann:<br>PHIL 200-<br>level (3)**                  |         | ENGR 131  | 3.0     |                   |                   |
| Neumann:<br>THEO 200-<br>level (3)**                  |         | UNIV E101 | 1.0     |                   |                   |
| 7                                                     |         | 14        |         | 0                 |                   |

|                    |                |                 |                |                   |                   |
|--------------------|----------------|-----------------|----------------|-------------------|-------------------|
| <b>Fourth Year</b> |                |                 |                |                   |                   |
| <b>Fall</b>        | <b>Credits</b> | <b>Winter</b>   | <b>Credits</b> | <b>Spring</b>     | <b>Credits</b>    |
| At Drexel          |                | At Drexel       |                | At Drexel         |                   |
| CIVC 101           | 1.0            | CS 265          | 3.0            | COOP<br>EXPERIENC | COOP<br>EXPERIENC |
| ECE 105            | 3.0            | ECE 303         | 3.0            |                   |                   |
| ECE 301            | 4.0            | ECE<br>Elective | 3.0            |                   |                   |
| ECEC 201           | 3.0            | ECEC 204        | 3.0            |                   |                   |
| ENGR 113           | 3.0            | MATH 291        | 4.0            |                   |                   |
| PHIL 315           | 3.0            |                 |                |                   |                   |
| <b>17</b>          |                | <b>16</b>       |                | <b>0</b>          |                   |

|            |         |           |         |           |         |
|------------|---------|-----------|---------|-----------|---------|
| Fifth Year |         |           |         |           |         |
| Fall       | Credits | Winter    | Credits | Spring    | Credits |
| At Drexel  |         | At Drexel |         | At Drexel |         |

|                 |     |                                        |     |                                       |     |
|-----------------|-----|----------------------------------------|-----|---------------------------------------|-----|
| CS 260          | 3.0 | CE Core<br>Elective                    | 3.0 | ECE 493                               | 3.0 |
| ECE 350         | 3.0 | ECE 492                                | 3.0 | ECE,<br>ECEC<br>400-level<br>Elective | 3.0 |
| ECE 491         | 3.0 | ECE,<br>ECEC<br>400-level<br>Electives | 6.0 | Free<br>Electives                     | 6.0 |
| ECE<br>elective | 3.0 | Free<br>Elective                       | 3.0 | General<br>Education<br>Requirement   | 3.0 |
| ECES 301        | 4.0 |                                        |     |                                       |     |
| <b>16</b>       |     | <b>15</b>                              |     | <b>15</b>                             |     |

**Total Credits 188**

**\*\***

Over 92.0 credits and cannot transfer

## Writing-Intensive Course Requirements

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (<https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list>) at the University Writing Program (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/>). (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/>) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

## Transfer Credits

To receive transfer credits, the courses must be substantially equivalent to courses offered in the desired curriculum at Drexel and students must have completed the courses with a grade of C (C=2.0) or better. The transfer courses listed should be used as a general guide and might not be acceptable for every major at the University. Drexel University makes every effort to keep this guide current, but cannot guarantee that every course will be acceptable for transfer. The number of credits a student can transfer will be determined by the academic department once the student has been accepted into the program.

## BS in Electrical Engineering

**Drexel Degree Name: B.S in Electrical Engineering**

**Neumann University Degree Name: B.S in Mathematics/Pre-Engineering**

**Sample Plan of Study - First, Second & Fall Term Third Year at Neumann University**

**92 credits at Neumann University transfer over as 90 credits at Drexel**

**Please contact the** Department of Electrical and Computer Engineering (<https://drexel.edu/engineering/academics/departments/electrical-computer-engineering/>) **for the most current Plan of Study.**

| First Year                                               |         |                                                        |                                        |         |
|----------------------------------------------------------|---------|--------------------------------------------------------|----------------------------------------|---------|
| Fall                                                     | Credits | Spring                                                 | Credits Summer                         | Credits |
| At Neumann University                                    |         | At Neumann University                                  | At Neumann University                  |         |
| CHEM 101 (Neumann: CHEM 107/117 [4])                     | 3.5     | CHEM 102 (Neumann: CHEM 108/118 [4])                   | 4.5 PHYS 101 (Neumann: PHY130/131 [4]) | 4.0     |
| ENGL 101 (Neumann: ENG 101 [3])                          | 3.0     | ENGL 102 & ENGL 103 (Neumann: ENG 102 [3])             | 6.0                                    |         |
| General Education elective (Neumann: Fine Arts Core [3]) | 3.0     | Free elective (Neumann: CIM 201 [3])                   | 4.0                                    |         |
| General Education elective (Neumann: THEO 104 [3])       | 3.0     | General Education elective (Neumann: History Core [3]) | 3.0                                    |         |
| MATH 121 (Neumann: MATH 250 [3])                         | 4.0     | MATH 122 (Neumann: MATH 251 [3])                       | 4.0                                    |         |
| Neumann: INT 101 (1)*                                    |         |                                                        |                                        |         |
| 16.5                                                     |         | 21.5                                                   |                                        | 4       |

| Second Year                      |         |                                |                                                    |         |
|----------------------------------|---------|--------------------------------|----------------------------------------------------|---------|
| Fall                             | Credits | Spring                         | Credits Summer                                     | Credits |
| At Neumann University            |         | At Neumann University          | At Neumann University                              |         |
| ENGR 111 (Neumann: MATH 325 [3]) | 3.0     | COM 230 (Neumann: COM 206 [3]) | 3.0 PHYS 102 & PHYS 201 (Neumann: PHY 131/136 [4]) | 8.0     |

|                                                            |     |                                                         |     |
|------------------------------------------------------------|-----|---------------------------------------------------------|-----|
| ENGR 231 (Neumann: MATH 275 [3])                           | 3.0 | ENGR 232 (Neumann: MATH 360 [3])                        | 3.0 |
| General Education elective (Neumann: Foreign Language [3]) | 3.0 | Free elective (Neumann: English Lit Core <sup>3</sup> ) | 3.0 |
| MATH 123 (Neumann: MATH 350 [3])                           | 4.0 | MATH 200 (Neumann: MATH 351 [3])                        | 4.0 |
| PHIL T280 (Neumann: PHIL 102 [3])                          | 3.0 | MATH 331 (Neumann: MATH 375 [3])                        | 4.0 |
|                                                            |     | Neumann: Foreign Language <sup>+</sup>                  |     |

| 16                                       |                | 17             |                | 8       |
|------------------------------------------|----------------|----------------|----------------|---------|
| Third Year                               |                |                |                |         |
| Fall                                     | Credits Winter | Credits Spring | Credits Summer | Credits |
| At Neumann University                    | At Drexel      | At Drexel      | At Drexel      |         |
| ECE 361 (Neumann: MATH 372 [3])          | 4.0 ECE 101    | 1.0 COOP 101   | 1.0 VACATION   |         |
| MATH 221 (Neumann: MATH 290 [3])         | 3.0 ECE 200    | 4.0 ECE 105    | 3.0            |         |
| Neumann: MATH 405 (3)*                   | ECE 201        | 4.0 ECE 301    | 4.0            |         |
| Neumann: MATH 405 (3)*                   | ENGR 131       | 3.0 ECEC 201   | 3.0            |         |
| Neumann: PHIL 200-level (3)*             | UNIV E101      | 1.0 ENGR 113   | 3.0            |         |
| Neumann: General Education elective (3)* |                |                |                |         |
|                                          | 7              | 13             | 14             |         |

| Fourth Year  |                |                    |                |         |
|--------------|----------------|--------------------|----------------|---------|
| Fall         | Credits Winter | Credits Spring     | Credits Summer | Credits |
| At Drexel    | At Drexel      | At Drexel          | At Drexel      |         |
| CIVC 101     | 1.0 ECE 303    | 3.0 COOP EXPERIEN( | COOP EXPERIEN( |         |
| ECE elective | 3.0 ECE 371    | 3.0                |                |         |
| ECE 370      | 3.0 ECEC 204   | 3.0                |                |         |
| ECE 380      | 3.0 ECES 301   | 4.0                |                |         |
| MATH 291     | 4.0            |                    |                |         |
| 14           |                | 13                 |                | 0       |

| Fifth Year   |                      |                |         |
|--------------|----------------------|----------------|---------|
| Fall         | Credits Winter       | Credits Spring | Credits |
| At Drexel    | At Drexel            | At Drexel      |         |
| ECE elective | 3.0 EE Core elective | 3.0 ECE 493    | 3.0     |

|                                                  |                                                      |                                                      |     |
|--------------------------------------------------|------------------------------------------------------|------------------------------------------------------|-----|
| ECE 491                                          | 3.0 ECE 492                                          | 3.0 ECEP,<br>ECES,<br>ECEE<br>400+ level<br>elective | 3.0 |
| ECEP,<br>ECES,<br>ECEE<br>400+ level<br>elective | 3.0 ECEP,<br>ECES,<br>ECEE<br>400+ level<br>elective | 3.0 Free<br>elective                                 | 3.0 |
| General<br>Education<br>Requirement              | 3.0 Free<br>elective                                 | 3.0 Free<br>elective                                 | 3.0 |
| PHIL 315                                         | 3.0                                                  |                                                      |     |
|                                                  | 15                                                   | 12                                                   | 12  |
| <b>Total Credits 183</b>                         |                                                      |                                                      |     |

\*

Over 90.0 credits and cannot transfer

## Writing-Intensive Course Requirements

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (<https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list>) at the University Writing Program (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/>). (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/>) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

## Transfer Credits

To receive transfer credits, the courses must be substantially equivalent to courses offered in the desired curriculum at Drexel and students must have completed the courses with a grade of C (C=2.0) or better. The transfer courses listed should be used as a general guide and might not be acceptable for every major at the University. Drexel University makes every effort to keep this guide current, but cannot guarantee that every course will be acceptable for transfer. The number of credits a student can transfer will be determined by the academic department once the student has been accepted into the program.

## BS in Electrical Engineering

**Drexel Degree Name: B.S in Electrical Engineering**

**Neumann University Degree Name: B.S in Mathematics/Pre-Engineering**

**Sample Plan of Study - First, Second & Fall Term Third Year at Neumann University**

**92 credits at Neumann University transfer over as 90 credits at Drexel**

**Please contact the** Department of Electrical and Computer Engineering (<https://drexel.edu/engineering/academics/departments/electrical-computer-engineering/>) **for the most current Plan of Study.**

| First Year                                                              |         |                                                                       |         |                                             |         |
|-------------------------------------------------------------------------|---------|-----------------------------------------------------------------------|---------|---------------------------------------------|---------|
| Fall                                                                    | Credits | Spring                                                                | Credits | Summer                                      | Credits |
| At<br>Neumann<br>University                                             |         | At<br>Neumann<br>University                                           |         | At<br>Neumann<br>University                 |         |
| CHEM 101<br>(Neumann:<br>CHEM<br>107/117<br>[4])                        | 3.5     | CHEM 102<br>(Neumann:<br>CHEM<br>108/118<br>[4])                      | 4.5     | PHYS 101<br>(Neumann:<br>PHY130/13:<br>[4]) | 4.0     |
| ENGL 101<br>(Neumann:<br>ENG 101<br>[3])                                | 3.0     | ENGL 102<br>& ENGL 103<br>(Neumann:<br>ENG 102<br>[3])                | 6.0     |                                             |         |
| Free<br>Elective<br>(Neumann:<br>THEO 104<br>[3])                       | 3.0     | Free<br>elective<br>(Neumann:<br>CIM 201<br>[3])                      | 4.0     |                                             |         |
| General<br>Education<br>Elective<br>(Neumann:<br>Fine Arts<br>Core [3]) | 3.0     | General<br>Education<br>Elective<br>(Neumann:<br>History<br>Core [3]) | 3.0     |                                             |         |
| MATH 121<br>(Neumann:<br>MATH 250<br>[3])                               | 4.0     | MATH 122<br>(Neumann:<br>MATH 251<br>[3])                             | 4.0     |                                             |         |
| Neumann:<br>INT 101 (1)                                                 |         |                                                                       |         |                                             |         |
|                                                                         | 16.5    |                                                                       | 21.5    |                                             | 4       |

| Second Year                                |         |                                          |         |                                                               |         |
|--------------------------------------------|---------|------------------------------------------|---------|---------------------------------------------------------------|---------|
| Fall                                       | Credits | Spring                                   | Credits | Summer                                                        | Credits |
| At<br>Neumann<br>University                |         | At<br>Neumann<br>University              |         | At<br>Neumann<br>University                                   |         |
| ENGR 111<br>(Neumann:<br>MATH 325<br>[ 3]) | 3.0     | COM 230<br>(Neumann:<br>Com 206<br>[ 3]) | 3.0     | PHYS 102<br>& PHYS 20:<br>(Neumann:<br>PHY<br>131/136<br>[4]) | 8.0     |

|                                                                              |     |                                                                             |     |
|------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------|-----|
| ENGR 231<br>(Neumann:<br>MATH 275<br>[ 3])                                   | 3.0 | ENGR 232<br>(Neumann:<br>MATH 360<br>[ 3])                                  | 3.0 |
| General<br>Education<br>Elective<br>(Neumann:<br>Foreign<br>Language<br>[3]) | 3.0 | General<br>Education<br>Requiremen<br>(Neumann:<br>English Lit<br>Core [3]) | 3.0 |
| General<br>Education<br>Elective<br>(Neumann:<br>PHIL 102<br>[3])            | 3.0 | MATH 200<br>(Neumann:<br>MATH 351<br>[3])                                   | 4.0 |
| MATH 123<br>(Neumann:<br>MATH 350<br>[3])                                    | 4.0 | MATH 331<br>(Neumann:<br>MATH 375<br>[ 3])                                  | 4.0 |
|                                                                              |     | Neumann:<br>Foreign<br>Language<br>[3]                                      |     |

| 16                                               |                | 17                    |                   | 8       |
|--------------------------------------------------|----------------|-----------------------|-------------------|---------|
| Third Year                                       |                |                       |                   |         |
| Fall                                             | Credits Winter | Credits Spring        | Credits Summer    | Credits |
| At<br>Neumann<br>University                      | At Drexel      | At Drexel             | At Drexel         |         |
| ECE 361<br>(Neumann:<br>MATH 372<br>[3])         | 4.0 COOP 101   | 1.0 COOP<br>EXPERIEN( | COOP<br>EXPERIEN( |         |
| MATH 221<br>(Neumann:<br>MATH 290<br>[3])        | 3.0 ECE 101    | 1.0                   |                   |         |
| Neumann:<br>General<br>Education<br>Elective [3] | ECE 200        | 4.0                   |                   |         |
| Neumann:<br>MATH 405<br>[3]                      | ECE 201        | 4.0                   |                   |         |
| Neumann:<br>PHIL 200-<br>level [3]               | ENGR 131       | 3.0                   |                   |         |
| Neumann:<br>THEO 200-<br>level [3]               | UNIV E101      | 1.0                   |                   |         |
|                                                  | 7              | 14                    | 0                 | 0       |

| Fourth Year          |                |                       |                   |         |
|----------------------|----------------|-----------------------|-------------------|---------|
| Fall                 | Credits Winter | Credits Spring        | Credits Summer    | Credits |
| At Drexel            | At Drexel      | At Drexel             | At Drexel         |         |
| CIVC 101             | 1.0 ECE 371    | 3.0 COOP<br>EXPERIEN( | COOP<br>EXPERIEN( |         |
| ECE 105<br>or CS 172 | 3.0 ECEC 204   | 3.0                   |                   |         |
| ECE 301              | 4.0 ECES 301   | 4.0                   |                   |         |
| ECE 370              | 3.0 MATH 291   | 4.0                   |                   |         |
| ECEC 201             | 3.0            |                       |                   |         |
| ENGR 113             | 3.0            |                       |                   |         |
|                      | 17             | 14                    | 0                 | 0       |

| Fifth Year |                |                |         |  |
|------------|----------------|----------------|---------|--|
| Fall       | Credits Winter | Credits Spring | Credits |  |
| At Drexel  | At Drexel      | At Drexel      |         |  |
| ECE 303    | 3.0 ECE 492    | 3.0 ECE 493    | 3.0     |  |

|                                                  |                                                      |                                                      |     |
|--------------------------------------------------|------------------------------------------------------|------------------------------------------------------|-----|
| ECE 380                                          | 3.0 EE Core<br>elective                              | 3.0 ECEP,<br>ECES,<br>ECEE<br>400+ level<br>elective | 3.0 |
| ECE 491                                          | 3.0 ECE<br>elective                                  | 3.0 COM<br>elective                                  | 3.0 |
| ECE<br>Elective                                  | 3.0 ECEP,<br>ECES,<br>ECEE<br>400+ level<br>elective | 3.0 Free<br>electives                                | 6.0 |
| ECEP,<br>ECES,<br>ECEE<br>400+ Level<br>Elective | 3.0 PHIL 315                                         | 3.0                                                  |     |
| Free<br>Elective                                 | 3.0                                                  |                                                      |     |
|                                                  | 18                                                   | 15                                                   | 15  |
| Total Credits 183                                |                                                      |                                                      |     |

## Writing-Intensive Course Requirements

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (<https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list>) at the University Writing Program (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/>). (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/>) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

## Transfer Credits

To receive transfer credits, the courses must be substantially equivalent to courses offered in the desired curriculum at Drexel and students must have completed the courses with a grade of C (C=2.0) or better. The transfer courses listed should be used as a general guide and might not be acceptable for every major at the University. Drexel University makes every effort to keep this guide current, but cannot guarantee that every course will be acceptable for transfer. The number of credits a student can transfer will be determined by the academic department once the student has been accepted into the program.



BS in Mechanical Engineering

Drexel Degree Name: B.S in Mechanical Engineering

Neumann University Degree Name: B.S in Mathematics/Pre-Engineering

Sample Plan of Study - First, Second & Fall Term Third Year at Neumann University

92 credits at Neumann University transfer over as 87 credits at Drexel

Please contact the Department of Mechanical Engineering and Mechanics (<https://drexel.edu/engineering/academics/departments/mechanical-engineering/>) for the most current Plan of Study.

| First Year                                                              |         |                                                                           |                                                                   |         |
|-------------------------------------------------------------------------|---------|---------------------------------------------------------------------------|-------------------------------------------------------------------|---------|
| Fall                                                                    | Credits | Spring                                                                    | Credits Summer                                                    | Credits |
| At<br>Neumann<br>University                                             |         | At<br>Neumann<br>University                                               | At<br>Neumann<br>University                                       |         |
| ENGL 101<br>(Neumann:<br>ENG 101<br>[3])                                | 3.0     | ENGL 102<br>& ENGL 103<br>(Neumann:<br>ENG 102<br>[3])                    | 6.0 PHYS 101<br>(Neumann:<br>PHY130/131<br>[4])                   | 4.0     |
| CHEM 101<br>(Neumann:<br>CHEM<br>107/117<br>[4])                        | 3.5     | CHEM 102<br>(Neumann:<br>CHEM<br>108/118<br>[4])                          | 4.5                                                               |         |
| Free<br>Elective<br>Credit<br>(Neumann:<br>INT 101<br>[1])              | 1.0     | General<br>Education<br>Elective<br>(Neumann:<br>History<br>Core [3])     | 3.0                                                               |         |
| General<br>Education<br>elective<br>(Neumann:<br>Fine Arts<br>Core [3]) | 3.0     | MATH 122<br>(Neumann:<br>MATH 251<br>[3])                                 | 4.0                                                               |         |
| MATH 121<br>(Neumann:<br>MATH 250<br>[3])                               | 4.0     | Neumann:<br>CIM 201<br>[3]                                                |                                                                   |         |
| Neumann:<br>THEO 104<br>[3]                                             |         |                                                                           |                                                                   |         |
| 14.5                                                                    |         | 17.5                                                                      |                                                                   | 4       |
| Second Year                                                             |         |                                                                           |                                                                   |         |
| Fall                                                                    | Credits | Spring                                                                    | Credits Summer                                                    | Credits |
| At<br>Neumann<br>University                                             |         | At<br>Neumann<br>University                                               | At<br>Neumann<br>University                                       |         |
| ENGR 111<br>(Neumann:<br>MATH 325<br>[3])                               | 3.0     | General<br>Education<br>Elective<br>(Neumann:<br>English Lit<br>Core [3]) | 3.0 PHYS 102<br>& PHYS 201<br>(Neumann:<br>PHY<br>131/136<br>[4]) | 8.0     |

|                                                            |                                      |                    |                                      |     |                |
|------------------------------------------------------------|--------------------------------------|--------------------|--------------------------------------|-----|----------------|
| General Education Elective (Neumann: Foreign Language [3]) | 3.0                                  |                    | HIST 285 (Neumann: HIST 103 [ 3])    | 4.0 |                |
| MATH 123 (Neumann: MATH 350 [3])                           | 4.0                                  |                    | MATH 200 (Neumann: MATH 351 [3])     | 4.0 |                |
| MATH 201 (Neumann: MATH 275 [3])                           | 4.0                                  |                    | MATH 210 (Neumann: MATH 360 [3])     | 4.0 |                |
| Neumann: PHIL 102 [3]                                      |                                      |                    | MATH 331 (Neumann: MATH 375 [ 3])    | 4.0 |                |
|                                                            |                                      |                    | Neumann: Foreign Language [3]        |     |                |
| 14                                                         |                                      | 19                 |                                      | 8   |                |
| Third Year                                                 |                                      |                    |                                      |     |                |
| Fall                                                       | Credits Winter                       |                    | Credits Spring                       |     | Credits Summer |
| At Neumann University                                      | At Drexel                            |                    | At Drexel                            |     | At Drexel      |
| MEM 361 (Neumann: MATH 372 [ 3])                           | 3.0 CIVC 101                         | 1.0 CIVE 240       | 3.0 COE Elective 300-Level or Higher | 3.0 |                |
| MATH 221 (Neumann: MATH 290 [ 3])                          | 3.0 COOP 101                         | 1.0 ENGR 113       | 3.0 MEM 220                          | 4.0 |                |
| MATH 300 (Neumann: MATH 405 [ 3])                          | 4.0 ENGR 131                         | 3.0 ENGR 220       | 4.0 MEM 238                          | 4.0 |                |
| Neumann: General Education elective [3]                    | ENGR 210                             | 3.0 MEM 202        | 3.0 PHIL 315                         | 3.0 |                |
| Neumann: PHIL 200-level [3]                                | MEM 201                              | 3.0 MEM 310        | 4.0                                  |     |                |
| Neumann: THO 200-Level [3]                                 | UNIV E101                            | 1.0                |                                      |     |                |
| 10                                                         |                                      | 12                 |                                      | 17  |                |
| Fourth Year                                                |                                      |                    |                                      |     |                |
| Fall                                                       | Credits Winter                       |                    | Credits Spring                       |     | Credits Summer |
| At Drexel                                                  | At Drexel                            |                    | At Drexel                            |     | At Drexel      |
| MEM 230                                                    | 4.0 MEM 255                          | 4.0 COOP EXPERIENC | COOP EXPERIENC                       |     |                |
| MEM 311                                                    | 2.0 MEM 331                          | 2.0                |                                      |     |                |
| MEM 345                                                    | 4.0 MEM 333                          | 3.0                |                                      |     |                |
| MEM 435                                                    | 4.0 MEM elective 300-Level or Higher | 3.0                |                                      |     |                |
| 14                                                         |                                      | 12                 |                                      | 0   |                |
| Fifth Year                                                 |                                      |                    |                                      |     |                |
| Fall                                                       | Credits Winter                       |                    | Credits Spring                       |     | Credits        |
| At Drexel                                                  | At Drexel                            |                    | At Drexel                            |     |                |
| MEM 355                                                    | 4.0 MEM 351                          | 2.0 BIO 141        | 4.5                                  |     |                |
| MEM 491                                                    | 3.0 MEM 492                          | 3.0 MEM 493        | 3.0                                  |     |                |

| MEM<br>Fundament:<br>Electives | 6.0 MEM<br>Fundament:<br>Elective                        | 3.0 MEM<br>Fundament:<br>Elective             | 3.0         |
|--------------------------------|----------------------------------------------------------|-----------------------------------------------|-------------|
|                                | MEM<br>Fundamental<br>Elective<br>300-Level<br>or Higher | 3.0 COE<br>Elective<br>300-Level<br>or Higher | 3.0         |
|                                | <b>13</b>                                                | <b>11</b>                                     | <b>13.5</b> |
| <b>Total Credits 193.5</b>     |                                                          |                                               |             |

## Writing-Intensive Course Requirements

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (<https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list>) at the University Writing Program (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/>). (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/>) Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

## Transfer Credits

To receive transfer credits, the courses must be substantially equivalent to courses offered in the desired curriculum at Drexel and students must have completed the courses with a grade of C (C=2.0) or better. The transfer courses listed should be used as a general guide and might not be acceptable for every major at the University. Drexel University makes every effort to keep this guide current, but cannot guarantee that every course will be acceptable for transfer. The number of credits a student can transfer will be determined by the academic department once the student has been accepted into the program.

## BS in Mechanical Engineering

**Drexel Degree Name: B.S in Mechanical Engineering**

**Neumann University Degree Name: B.S in Mathematics/Pre-Engineering**

**Sample Plan of Study - First, Second & Fall Term Third Year at Neumann University**

**92 credits at Neumann University transfer over as 87 credits at Drexel**

**Please contact the Department of Mechanical Engineering and Mechanics (<https://drexel.edu/engineering/academics/departments/mechanical-engineering/>) for the most current Plan of Study.**

| First Year                                                                     |         |                                                                           |                                                                   |         |
|--------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------|-------------------------------------------------------------------|---------|
| Fall                                                                           | Credits | Spring                                                                    | Credits Summer                                                    | Credits |
| At<br>Neumann<br>University                                                    |         | At<br>Neumann<br>University                                               | At<br>Neumann<br>University                                       |         |
| CHEM 101<br>(Neumann:<br>CHEM<br>107/117<br>[4])                               | 3.5     | CHEM 102<br>(Neumann:<br>CHEM<br>108/118<br>[4])                          | 4.5 PHYS 101<br>(Neumann:<br>PHY130/131<br>[4])                   | 4.0     |
| ENGL 101<br>(Neumann:<br>ENG 101<br>[3])                                       | 3.0     | ENGL 102<br>& ENGL 103<br>(Neumann:<br>ENG 102<br>[3])                    | 6.0                                                               |         |
| Free<br>Elective<br>(Neumann:<br>INT 101<br>[1])                               | 1.5     | General<br>Education<br>elective<br>(Neumann:<br>History<br>Core [3])     | 3.0                                                               |         |
| General<br>Education<br>elective<br>(Neumann:<br>Fine Arts<br>Elective<br>[3]) | 3.0     | MATH 122<br>(Neumann:<br>MATH 251<br>[3])                                 | 4.0                                                               |         |
| MATH 121<br>(Neumann:<br>MATH 250<br>[3])                                      | 4.0     | Neumann:<br>CIM 201<br>[3]                                                |                                                                   |         |
| (Neumann:<br>THEO 104<br>[3])                                                  |         |                                                                           |                                                                   |         |
| 15                                                                             |         | 17.5                                                                      |                                                                   | 4       |
| Second Year                                                                    |         |                                                                           |                                                                   |         |
| Fall                                                                           | Credits | Spring                                                                    | Credits Summer                                                    | Credits |
| At<br>Neumann<br>University                                                    |         | At<br>Neumann<br>University                                               | At<br>Neumann<br>University                                       |         |
| ENGR 111<br>(Neumann:<br>MATH 325<br>[3])                                      | 3.0     | General<br>Education<br>Elective<br>(Neumann:<br>English Lit<br>Core [3]) | 3.0 PHYS 102<br>& PHYS 201<br>(Neumann:<br>PHY<br>131/136<br>[4]) | 8.0     |

|                                                            |     |                                  |     |          |
|------------------------------------------------------------|-----|----------------------------------|-----|----------|
| General Education elective (Neumann: Foreign Language [3]) | 3.0 | HIST 285 (Neumann: HIST 103 [3]) | 4.0 |          |
| MATH 123 (Neumann: MATH 350 [3])                           | 4.0 | MATH 200 (Neumann: MATH 351 [3]) | 4.0 |          |
| MATH 201 (Neumann: MATH 275 [3])                           | 4.0 | MATH 210 (Neumann: MATH 360 [3]) | 4.0 |          |
| Neumann: PHIL 102 [3]                                      |     | MATH 331 (Neumann: Math 375 [3]) | 4.0 |          |
|                                                            |     | Neumann: English Lit Core [3]    |     |          |
|                                                            |     | Neumann: Foreign Language [3]    |     |          |
| <b>14</b>                                                  |     | <b>19</b>                        |     | <b>8</b> |

| Third Year                                |                |                     |                 |          |
|-------------------------------------------|----------------|---------------------|-----------------|----------|
| Fall                                      | Credits Winter | Credits Spring      | Credits Summer  | Credits  |
| At Drexel                                 | At Drexel      | At Drexel           | At Drexel       |          |
| At Neumann University                     |                |                     |                 |          |
| MATH 221 (Neumann: MATH 290 [3])          | 3.0 CIVC 101   | 1.0 COOP EXPERIENCE | COOP EXPERIENCE |          |
| MATH 300 (Neumann: MATH 405 [3])          | 4.0 COOP 101   | 1.0                 |                 |          |
| MEM 361 (Neumann: MATH 372 [3])           | 3.0 ENGR 131   | 3.0                 |                 |          |
| (Neumann: General Education Elective [3]) | ENGR 210       | 3.0                 |                 |          |
| (Neumann: PHIL 200-Level Elective [3])    | MEM 201        | 3.0                 |                 |          |
| (Neumann: THEO 200-Level Elective [3])    | UNIV E101      | 1.0                 |                 |          |
| <b>10</b>                                 |                | <b>12</b>           |                 | <b>0</b> |

| Fourth Year |                |                     |                 |          |
|-------------|----------------|---------------------|-----------------|----------|
| Fall        | Credits Winter | Credits Spring      | Credits Summer  | Credits  |
| At Drexel   | At Drexel      | At Drexel           | At Drexel       |          |
| CIVE 240    | 3.0 MEM 220    | 4.0 COOP EXPERIENCE | COOP EXPERIENCE |          |
| ENGR 113    | 3.0 MEM 238    | 4.0                 |                 |          |
| ENGR 220    | 4.0 PHIL 315   | 3.0                 |                 |          |
| MEM 202     | 3.0            |                     |                 |          |
| MEM 310     | 4.0            |                     |                 |          |
| <b>17</b>   |                | <b>11</b>           |                 | <b>0</b> |

| Fifth Year                 |                                      |                                      |                 |         |
|----------------------------|--------------------------------------|--------------------------------------|-----------------|---------|
| Fall                       | Credits Winter                       | Credits Spring                       | Credits Summer  | Credits |
| At Drexel                  | At Drexel                            | At Drexel                            | At Drexel       |         |
| MEM 230                    | 4.0 MEM 255                          | 4.0 COOP EXPERIENCE                  | COOP EXPERIENCE |         |
| MEM 311                    | 2.0 MEM 331                          | 2.0                                  |                 |         |
| MEM 345                    | 4.0 MEM 333                          | 3.0                                  |                 |         |
| MEM 435                    | 4.0 MEM elective 300+ level          | 3.0                                  |                 |         |
| 14                         |                                      | 12                                   | 0               | 0       |
| Sixth Year                 |                                      |                                      |                 |         |
| Fall                       | Credits Winter                       | Credits Spring                       | Credits         |         |
| At Drexel                  | At Drexel                            | At Drexel                            |                 |         |
| MEM 355                    | 4.0 COE Elective 300-Level or Higher | 3.0 BIO 141                          | 4.5             |         |
| MEM 491                    | 3.0 MEM 351                          | 2.0 COE Elective 300-Level or Higher | 3.0             |         |
| MEM Fundamentals Electives | 6.0 MEM 492                          | 3.0 MEM 493                          | 3.0             |         |
|                            | MEM Elective 300-Level or Higher     | 3.0 MEM Fundamental Elective         | 3.0             |         |
|                            | MEM Fundamentals Elective            | 3.0                                  |                 |         |
| 13                         |                                      | 14                                   | 13.5            |         |

Total Credits 194

## Writing-Intensive Course Requirements

In order to graduate, all students 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.

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## Transfer Credits

To receive transfer credits, the courses must be substantially equivalent to courses offered in the desired curriculum at Drexel and students must have completed the courses with a grade of C (C=2.0) or better. The transfer courses listed should be used as a general guide and might not be acceptable for every major at the University. Drexel University makes

every effort to keep this guide current, but cannot guarantee that every course will be acceptable for transfer. The number of credits a student can transfer will be determined by the academic department once the student has been accepted into the program.



## Rowan College at Burlington County

### Degree Programs in the Close School of Entrepreneurship

- BA in Entrepreneurship and Innovation (RCBC: A.S. in Liberal Arts and Sciences) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/ba-entrepreneurshipinnovation/>)

### Degree Programs in the College of Arts and Sciences

- BS in Biological Sciences (RCBC: A.S. in Biology) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-biologicalscience/>)
- BS in Chemistry (RCBC: A.S. in Chemistry) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-chemistry/>)
- BA in Communication - Journalism Concentration (RCBC: A.A. in Communication Arts) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/ba-communication-journalism/>)
- BA in Communication - Public Relations Concentration (RCBC: A.A. in Communication Arts) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/ba-communication-publicrelationsconcl/>)
- BA in English (RCBC: A.A. in English) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/ba-english/>)
- BS in Mathematics (RCBC: A.S. in Mathematics) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-mathematics/>)
- BA in Philosophy (RCBC: A.A. in Philosophy) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/ba-philosophy/>)
- BA in Political Science (RCBC: A.A. in Political Science) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/ba-politicalscience/>)
- BS in Psychology (RCBC: A.A. in Psychology) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-psychology/>)
- BA in Sociology (RCBC: A.A. in Sociology) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/ba-sociology/>)

### Degree Programs in the College of Business

- BS in Business Administration - Major in Accounting (RCBC: A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-ba-accounting/>)
- BS in Business Administration - Major in Marketing (RCBC: A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-ba-marketing/>)

### Degree Programs in the College of Engineering

- BS in Architectural Engineering - Mechanical Concentration (RCBC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/architecturaleng-mechanicalconcl/>)
- BS in Architectural Engineering - Structural Concentration (RCBC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/architecturaleng-structuralconcl/>)
- BS in Chemical Engineering (RCBC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-chemicalengineering/>)
- BS in Civil Engineering (RCBC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/civilengineering/>)
- BS in Computer Engineering (RCBC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-computerengineering/>)
- BS in Electrical Engineering (RCBC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-electricalengineering/>)
- BS in Environmental Engineering (RCBC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-environmentalengineering/>)
- BS in Materials and Science Engineering (RCBC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-materialsscience-engineering/>)
- BS in Mechanical Engineering (RCBC: A.S. in Engineering) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-mechanicalengineering/>)

### Degree Programs in the Goodwin College of Professional Studies

- BS in Interdisciplinary Professional Studies (RCBC: A.S. in Liberal Arts and Sciences) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/rcbc/bs-interdisprofstudies/>)

## Thaddeus Stevens College of Technology

### Degree Programs in the College of Computing & Informatics

- BS in Computing and Security Technology (Thaddeus Stevens: A.A.S. in Computer & Network Systems Administration) (p. 23)

### Degree Programs in the Goodwin College of Professional Studies

- BS in Interdisciplinary Professional Studies (Thaddeus Stevens: A.A.S. in Business Administration) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/thaddeusstevens/bs-interdisprofstudies/>)

# BS in Computing and Security Technology

**Drexel Degree: B.S. in Computing and Security Technology**

**Community College Degree: A.A.S. in Computer & Network Systems Administration**

**Sample Plan of Study - First & Second Year at Thaddeus Stevens College of Technology**

**73.0 credits at Thaddeus Stevens College of Technology transfer over as 89.0 credits at Drexel**

**Please contact the College of Computing & Informatics (<https://drexel.edu/ccci/academics/undergraduate-programs/>) for the most current Plan of Study.**

## On-campus, 1 coop

| First Year                             |         |                                            |         |
|----------------------------------------|---------|--------------------------------------------|---------|
| Fall                                   | Credits | Spring                                     | Credits |
| At Community College                   |         | At Community College                       |         |
| CT 140 (Thaddeus Stevens=CT 111 [3])   | 3.0     | COM 310 (Thaddeus Stevens=EN 216 [3])      | 3.0     |
| CT 330 (Thaddeus Stevens=CNSA 117 [3]) | 3.0     | CT 200 (Thaddeus Stevens=CNSA 156 [3])     | 3.0     |
| ENGL 101 (Thaddeus Stevens=EN 106 [3]) | 3.0     | CT 320 (Thaddeus Stevens=CT 161 [3])       | 3.0     |
| INFO 101 & INFO 102                    | 6.0     | INFO 151 (Thaddeus Stevens=CNSA 172 [3])   | 3.0     |
| MATH 100 (Thaddeus Stevens=M/ 137 [3]) | 3.0     | CCI elective (Thaddeus Stevens=CT 166 [3]) | 3.0     |
| Free electives                         | 4.5     | Free electives                             | 0.5     |
| Thaddeus Stevens=CT 107 [3]            |         | Thaddeus Stevens=M/ 141 [3]                |         |
| Thaddeus Stevens=CNSA 123 [3]          |         |                                            |         |
| 22.5                                   |         | 15.5                                       |         |
| Second Year                            |         |                                            |         |
| Fall                                   | Credits | Spring                                     | Credits |
| At Community College                   |         | At Community College                       |         |

|                                                                     |         |                                                                        |         |           |         |                             |         |
|---------------------------------------------------------------------|---------|------------------------------------------------------------------------|---------|-----------|---------|-----------------------------|---------|
| COM 230<br>(Thaddeus Stevens=EN 221 [3])                            | 3.0     | CI 101                                                                 | 2.0     |           |         |                             |         |
| CT 210<br>(Thaddeus Stevens=CNSA 256 [3])                           | 3.0     | CI 102 & CI 103<br>(Thaddeus Stevens=CNSA 276 [3])                     | 4.0     |           |         |                             |         |
| INFO 152<br>(Thaddeus Stevens=CT 212 [3])                           | 3.0     | INFO 153<br>(Thaddeus Stevens=CT 216 [3])                              | 3.0     |           |         |                             |         |
| INFO 210<br>(Thaddeus Stevens=CNSA 222 [3])                         | 3.0     | CCI elective<br>(Thaddeus Stevens=CNSA 271 [3])                        | 3.0     |           |         |                             |         |
| Free electives                                                      | 3.5     | Free elective<br>(Thaddeus Stevens=CT 266 [3])                         | 4.5     |           |         |                             |         |
| Free elective<br>(Thaddeus Stevens=CNSA 227 [3])                    | 4.5     | Liberal Studies elective<br>(Thaddeus Stevens=Humanities elective [3]) | 4.5     |           |         |                             |         |
| Liberal Studies elective                                            | 1.5     | Natural Science requirement<br>(Thaddeus Stevens=PT 106 [3])           | 4.0     |           |         |                             |         |
| Liberal Studies elective<br>(Thaddeus Stevens=General elective [3]) | 4.5     | Thaddeus Stevens=HEAL elective,<br>HEAL 106 or HEAL 111 [1]            |         |           |         |                             |         |
| 26                                                                  |         | 25                                                                     |         |           |         |                             |         |
| Third Year                                                          |         |                                                                        |         |           |         |                             |         |
| Fall                                                                | Credits | Winter                                                                 | Credits | Spring    | Credits | Summer                      | Credits |
| At Drexel                                                           |         | At Drexel                                                              |         | At Drexel |         | At Drexel                   |         |
| CI 120                                                              | 2.0     | CIVC 101                                                               | 1.0     | CT 212    | 3.0     | CT 400                      | 3.0     |
| CT 201                                                              | 3.0     | COOP 101                                                               | 1.0     | ENGL 103  | 3.0     | CT 412                      | 3.0     |
| ENGL 102                                                            | 3.0     | CT 301                                                                 | 3.0     | INFO 103  | 3.0     | INFO 310                    | 3.0     |
| INFO 200                                                            | 3.0     | CT 310                                                                 | 3.0     | MATH 173  | 3.0     | Natural Science requirement | 4.0     |
| MATH 171                                                            | 3.0     | INFO 355                                                               | 3.0     |           |         |                             |         |
|                                                                     |         | MATH 172                                                               | 3.0     |           |         |                             |         |
| 14                                                                  |         | 14                                                                     |         | 12        |         | 13                          |         |
| Fourth Year                                                         |         |                                                                        |         |           |         |                             |         |
| Fall                                                                | Credits | Winter                                                                 | Credits | Spring    | Credits | Summer                      | Credits |
| At Drexel                                                           |         | At Drexel                                                              |         | At Drexel |         | At Drexel                   |         |
| COOP EXPERIENCE                                                     |         | COOP EXPERIENCE                                                        |         | CT 312    | 3.0     | CT 250                      | 3.0     |
|                                                                     |         |                                                                        |         | CT 382    | 3.0     | INFO 215                    | 3.0     |
|                                                                     |         |                                                                        |         | CT 432    | 3.0     | INFO 420                    | 3.0     |
|                                                                     |         |                                                                        |         | INFO 365  | 3.0     | STAT 201                    | 4.0     |
| 0                                                                   |         | 0                                                                      |         | 12        |         | 13                          |         |
| Fifth Year                                                          |         |                                                                        |         |           |         |                             |         |
| Fall                                                                | Credits | Winter                                                                 | Credits | Spring    | Credits | Summer                      | Credits |
| At Drexel                                                           |         | At Drexel                                                              |         | At Drexel |         | At Drexel                   |         |
| COOP EXPERIENCE                                                     |         | COOP EXPERIENCE                                                        |         | CT 496    | 3.0     |                             |         |

|          |     |          |     |                                |     |
|----------|-----|----------|-----|--------------------------------|-----|
| INFO 324 | 3.0 | CT 491   | 3.0 | MATH 180                       | 4.0 |
|          |     |          |     | Free<br>elective               | 2.0 |
|          |     |          |     | Liberal<br>Studies<br>elective | 3.0 |
| <b>3</b> |     | <b>3</b> |     | <b>12</b>                      |     |

**Total Credits 185**

## Online

### First Year

| Fall                                            | Credits | Spring                                                 | Credits |
|-------------------------------------------------|---------|--------------------------------------------------------|---------|
| At<br>Community<br>College                      |         | At<br>Community<br>College                             |         |
| CT 140<br>(Thaddeus<br>Stevens=CT<br>111 [3])   | 3.0     | COM 310<br>(Thaddeus<br>Stevens=EN<br>216 [3])         | 3.0     |
| CT 330<br>(Thaddeus<br>Stevens=CNSA<br>117 [3]) | 3.0     | CT 200<br>(Thaddeus<br>Stevens=CNSA<br>156 [3])        | 3.0     |
| ENGL 101<br>(Thaddeus<br>Stevens=EN<br>106 [3]) | 3.0     | CT 320<br>(Thaddeus<br>Stevens=CT<br>161 [3])          | 3.0     |
| INFO 101<br>& INFO 102                          | 6.0     | INFO 151<br>(Thaddeus<br>Stevens=CNSA<br>172 [3])      | 3.0     |
| MATH 100<br>(Thaddeus<br>Stevens=M/<br>137 [3]) | 3.0     | CCI<br>elective<br>(Thaddeus<br>Stevens=CT<br>166 [3]) | 3.0     |
| Free<br>electives                               | 4.5     | Free<br>electives                                      | 0.5     |
| Thaddeus<br>Stevens=CT<br>107 [3]               |         | Thaddeus<br>Stevens=M/<br>141 [3]                      |         |
| Thaddeus<br>Stevens=CNSA<br>123 [3]             |         |                                                        |         |
| <b>22.5</b>                                     |         | <b>15.5</b>                                            |         |

### Second Year

| Fall                                              | Credits | Spring                                                      | Credits |
|---------------------------------------------------|---------|-------------------------------------------------------------|---------|
| At<br>Community<br>College                        |         | At<br>Community<br>College                                  |         |
| COM 230<br>(Thaddeus<br>Stevens=EN<br>221 [3])    | 3.0     | CI 101                                                      | 2.0     |
| CT 210<br>(Thaddeus<br>Stevens=CNSA<br>256 [3])   | 3.0     | CI 102<br>& CI 103<br>(Thaddeus<br>Stevens=CNSA<br>276 [3]) | 4.0     |
| INFO 152<br>(Thaddeus<br>Stevens=CT<br>212 [3])   | 3.0     | INFO 153<br>(Thaddeus<br>Stevens=CT<br>216 [3])             | 3.0     |
| INFO 210<br>(Thaddeus<br>Stevens=CNSA<br>222 [3]) | 3.0     | CCI<br>elective<br>(Thaddeus<br>Stevens=CNSA<br>271 [3])    | 3.0     |

|                                                                                 |     |                                                                                    |     |
|---------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------|-----|
| Free<br>electives                                                               | 3.5 | Free<br>elective<br>(Thaddeus<br>Stevens=CT<br>266 [3])                            | 4.5 |
| Free<br>elective<br>(Thaddeus<br>Stevens=CNSA<br>227 [3])                       | 4.5 | Liberal<br>Studies<br>elective<br>(Thaddeus<br>Stevens=Humanities<br>elective [3]) | 4.5 |
| Liberal<br>Studies<br>elective                                                  | 1.5 | Natural<br>Science<br>requirement<br>(Thaddeus<br>Stevens=PT<br>106 [3])           | 4.0 |
| Liberal<br>Studies<br>elective<br>(Thaddeus<br>Stevens=General<br>elective [3]) | 4.5 | Thaddeus<br>Stevens=HEAL<br>elective,<br>HEAL 106<br>or HEAL<br>111 [1]            |     |
| <b>26</b>                                                                       |     | <b>25</b>                                                                          |     |

### Third Year

| Fall      | Credits | Winter    | Credits | Spring    | Credits | Summer                            | Credits |
|-----------|---------|-----------|---------|-----------|---------|-----------------------------------|---------|
| At Drexel |         | At Drexel |         | At Drexel |         | At Drexel                         |         |
| CI 120    | 2.0     | CT 301    | 3.0     | CT 212    | 3.0     | CT 400                            | 3.0     |
| CT 201    | 3.0     | CT 310    | 3.0     | CT 382    | 3.0     | CT 412                            | 3.0     |
| ENGL 102  | 3.0     | INFO 355  | 3.0     | ENGL 103  | 3.0     | INFO 310                          | 3.0     |
| INFO 200  | 3.0     | MATH 172  | 3.0     | INFO 103  | 3.0     | Natural<br>Science<br>requirement | 4.0     |
| MATH 171  | 3.0     |           |         | MATH 173  | 3.0     |                                   |         |
| <b>14</b> |         | <b>12</b> |         | <b>15</b> |         | <b>13</b>                         |         |

### Fourth Year

| Fall      | Credits | Winter    | Credits | Spring                         | Credits |
|-----------|---------|-----------|---------|--------------------------------|---------|
| At Drexel |         | At Drexel |         | At Drexel                      |         |
| CT 312    | 3.0     | CT 250    | 3.0     | CT 496                         | 3.0     |
| CT 432    | 3.0     | CT 491    | 3.0     | MATH 180                       | 4.0     |
| INFO 324  | 3.0     | INFO 215  | 3.0     | Free<br>elective               | 4.0     |
| INFO 365  | 3.0     | INFO 420  | 3.0     | Liberal<br>Studies<br>elective | 3.0     |
|           |         | STAT 201  |         | 4.0                            |         |
| <b>12</b> |         | <b>16</b> |         | <b>14</b>                      |         |

**Total Credits 185**

## Writing-Intensive Course Requirements

In order to graduate, all students 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List (<https://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/faculty-programs/#writing-intensive-list>) at the University Writing Program (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university->

writing-program/). (<http://drexel.edu/coas/academics/departments-centers/english-philosophy/university-writing-program/drexel-writing-center/>)

Students scheduling their courses can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

## **Transfer Credits**

To receive transfer credits, the courses must be substantially equivalent to courses offered in the desired curriculum at Drexel and students must have completed the courses with a grade of C (C=2.0) or better. The transfer courses listed should be used as a general guide and might not be acceptable for every major at the University. Drexel University makes every effort to keep this guide current, but cannot guarantee that every course will be acceptable for transfer. The number of credits a student can transfer will be determined by the academic department once the student has been accepted into the program.

## **Union County College**

### **Degree Programs in the College of Arts and Sciences**

- BS in Environmental Science (UCC: A.S. in Sustainability Science) (<https://catalog.drexel.edu/additionalacademicprograms/ccarticulationagreements/unioncountycollege/bs-envs/>)

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