

Vaughn College

of aeronautics and technology



Undergraduate Catalog Addendum 2017–2018

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Vaughn College
of Aeronautics and Technology

Undergraduate Catalog Addendum 2017–2018

The addendum to the catalog of Vaughn College of Aeronautics and Technology is prepared by the office of public affairs in consultation with other departments.

While every effort is made to provide accurate and current information, the College, at its sole discretion, reserves the right to change without notice, statements concerning policies, rules, requirements, procedures, courses, curricula, schedules, activities, tuition, fees and calendars of the College that are set forth in this catalog. Such changes can be of any nature, including, but not limited to, the modification, cancellation or elimination of programs, classes or activities.

Payment of tuition, registration or attendance at any class shall constitute a student's acceptance of the College's rights as set forth above. If you have questions or would like current information, please contact the office of admissions at 718.429.6600, ext. 118.

Vaughn College is committed to a policy of equal treatment and opportunity in every aspect of its relations with its students, faculty, staff, applicants and members of the larger community, including consideration for admission to the College and access to the College's programs, privileges, activities and services without regard to age, citizenship status, disability, marital status, national origin, race, religion, creed, veteran status, gender or sexual orientation.

Inquiries regarding the application of the equal opportunity and nondiscrimination policies and procedures at Vaughn College can be referred to the office of student affairs.

For information on Vaughn's master's degree program in airport management, see the graduate catalog on Vaughn's website.

As with all annual publications, information is subject to change.

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ACADEMIC CALENDAR 2017 – 2018*

* All dates are subject to change. Check the website: www.vaughn.edu.

FALL SEMESTER 2017

| | |
|--|---|
| Registration | Mon., March 6, 2017 through Sat., September 2, 2017** |
| Labor Day Holiday | Mon., September 4 |
| Classes Begin | Tues., September 5, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Tues., September 5 |
| Tuition Payment Due | Tues., September 5 |
| Program Adjustment Period (<i>add/drop/change</i>) | Tues., September 5 through Sat., September 16 |
| Last Day to Register | Sat., September 16 |
| Last Day to File for May 2018 Graduation | Fri., September 29 |
| Columbus Day Holiday | Mon., October 9 |
| Monday Schedule | Tues., October 10 |
| Midterm Exam Period | Mon., October 16 through Sat., October 21 |
| Last Day to Withdraw without Academic Penalty | Tues., November 7 |
| Veterans Day Observed | Fri., November 10 |
| Thanksgiving Recess | Wed., November 22 through Sun., November 26 |
| Classes Resume | Mon., November 27, 8 a.m. |
| Classes End | Fri., December 15 |
| Exam Period | Mon., December 18 through Fri., December 22 |
| Spring/Summer 2017 Grade Change Deadline | Fri., December 22 |
| Winter Recess | Sat., December 23 through Mon., January 15, 2018 |

SPRING SEMESTER 2018

| | |
|--|--|
| Registration | Mon., March 6, 2017 through Sat., January 13, 2018** |
| Dr. Martin Luther King Jr. Day Holiday | Mon., January 15 |
| Classes Begin | Tues., January 16, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Tues., January 16 |
| Tuition Payment Due | Tues., January 16 |
| Program Adjustment Period (<i>add/drop/change</i>) | Tues., January 16 through Sat., January 27 |
| Last Day to Register | Sat., January 27 |
| Presidents Day Holiday | Mon., February 19 |
| Monday Schedule | Tues., February 20 |
| Midterm Exam Period | Mon., February 26 through Sat., March 3 |
| Last Day to Withdraw without Academic Penalty | Tues., March 20 |
| Spring Recess | Mon., March 19 through Sun., March 25 |
| Classes Resume | Mon., March 26, 8 a.m. |
| Last Day to File for September 2018 Graduation | Fri., March 30 |
| Classes End | Tues., May 1 |
| Exam Period | Wed., May 2 through Tues., May 8 |
| Fall 2017 Grade Change Deadline | Tues., May 8 |
| Honors Convocation | Wed., May 9 |
| Commencement | Sat., May 19 |

ACADEMIC SESSION I SUMMER 2018

| | |
|--|---|
| Registration | Mon., March 6, 2017, through Fri., May 18, 2018** |
| Classes Begin | Mon., May 21, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Mon., May 21 |
| Tuition Payment Due | Mon., May 21 |
| Program Adjustment Period (<i>add/drop/change</i>) | Mon., May 21 through Wed., May 23 |
| Last Day to Register | Wed., May 23 |
| Memorial Day Holiday | Mon., May 28 |
| Last Day to Withdraw without Academic Penalty | Mon., June 11 |
| Classes End | Fri., June 29 |
| Last Day to File for December 2018 Graduation | Fri., June 29 |
| Summer Recess | Mon., July 2 through Sun., July 8 |

ACADEMIC SESSION II SUMMER 2018

| | |
|--|--|
| Registration | Mon., March 6, 2017, through Fri., June 29, 2018** |
| Classes Begin | Mon., July 9, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Mon., July 9 |
| Tuition Payment Due | Mon., July 9 |
| Program Adjustment Period (<i>add/drop/change</i>) | Mon., July 9 through Wed., July 11 |
| Last Day to Register | Wed., July 11 |
| Last Day to Withdraw without Academic Penalty | Mon., July 30 |
| Classes End | Fri., August 17 |

** (Early registration and/or online registration may be available by contacting academic advisement)

AVIATION TRAINING INSTITUTE CALENDAR 2017 – 2018*

* All dates are subject to change. Check the website: www.vaughn.edu.

FALL SEMESTER 2017

| | |
|--|--|
| Registration | Mon., March 6, 2017, through Sat., September 2, 2017** |
| Labor Day Holiday | Mon., September 4 |
| Classes Begin | Tues., September 5, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Tues., September 5 |
| Tuition Payment Due | Tues., September 5 |
| Program Adjustment Period (<i>add/drop/change</i>) | Tues., September 5 through Sat., September 9 |
| Last Day to Register | Sat., September 9 |
| Last Day to File for May 2018 Graduation | Fri., September 29 |
| Columbus Day Holiday | Mon., October 9 |
| Monday Schedule | Tues., October 10 |
| Last Day to Withdraw without Academic Penalty | Tues., November 7 |
| Thanksgiving Recess | Wed., November 22 through Sun., November 26 |
| Classes Resume | Mon., November 27, 8 a.m. |
| Classes End | Sat., December 23 |
| Spring/Summer 2016 Grade Change Deadline | Fri., December 22 |
| Winter Recess | Sun., December 24, 2016, through Sun., January 7, 2018 |

SPRING SEMESTER 2018

| | |
|--|---|
| Registration | Mon., March 6, 2017 through Sat., January 6, 2018** |
| Classes Begin | Mon., January 8, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Mon., January 8 |
| Tuition Payment Due | Mon., January 8 |
| Program Adjustment Period (<i>add/drop/change</i>) | Mon., January 8 through Sat., January 13 |
| Last Day to Register | Sat., January 13 |
| Dr. Martin Luther King Jr. Day Holiday | Mon., January 15 |
| Presidents Day Holiday | Mon., February 19 |
| Monday Schedule | Tues., February 20 |
| Last Day to Withdraw without Academic Penalty | Mon., March 12 |
| Spring Recess | Mon., March 19 through Sun., March 25 |
| Classes Resume | Mon., March 26, 8 a.m. |
| Last Day to File for September 2018 Graduation | Fri., March 30 |
| Classes End | Fri., April 20 |
| Fall 2016 Grade Change Deadline | Tues., May 8 |
| Honors Convocation | Wed., May 9 |
| Commencement | Sat., May 19 |

SESSION I SUMMER 2018

| | |
|--|--|
| Registration | Mon., March 6, 2017 through Sat., May 12, 2018** |
| Classes Begin | Mon., May 14, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Mon., May 14 |
| Tuition Payment Due | Mon., May 14 |
| Program Adjustment Period (<i>add/drop/change</i>) | Mon., May 14 through Tues., May 15 |
| Last Day to Register | Tues., May 15 |
| Memorial Day Holiday | Mon., May 28 |
| Last Day to Withdraw without Academic Penalty | Wed., June 4 |
| Classes End | Fri., June 29 |
| Last Day to File for December 2018 Graduation | Fri., June 29 |
| Summer Recess | Mon., July 2 through Sun., July 8 |

SESSION II SUMMER 2018

| | |
|--|--|
| Registration | Mon., March 6, 2017, through Fri., June 29, 2018** |
| Classes Begin | Mon., July 9, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Mon., July 9 |
| Tuition Payment Due | Mon., July 9 |
| Program Adjustment Period (<i>add/drop/change</i>) | Mon., July 9 through Tues., July 10 |
| Last Day to Register | Tues., July 10 |
| Last Day to Withdraw without Academic Penalty | Mon., July 30 |
| Classes End | Fri., August 24 |

** (Early registration and/or online registration may be available by contacting academic advisement)

ENROLLMENT SERVICES

ADMISSIONS PROCEDURES

ENTRANCE REQUIREMENTS

Minimum requirements include: a high school diploma, General Equivalency Diploma (GED) or equivalent, and proficiency in English as determined by high school transcripts, Scholastic Aptitude Test (SAT), American College Test (ACT) or an English Language Proficiency Exam.

Prospective students who completed secondary education outside of the U.S. may present national school leaving certificates (including: CXC, GCE, “O” and “A” levels, Bagrut, Abitur, IB, Attestat, French Baccalaureat, etc.) for consideration. A NACES approval evaluation may be required to determine a foreign credentials authenticity a equivalency in the U.S.

Academic and technical aptitudes are required in varying degrees for different programs. In general, bachelor of science (BS) and associate in applied science (AAS) courses depend upon academic abilities, and the associate in occupational studies (AOS) focuses more on technical aptitude. All BS applicants who have completed fewer than 24 post-secondary college or university credits must submit results of the SAT 1 reasoning exam or ACT exam. These results must be less than five years old.

Vaughn requires that all applicants take the Accuplacer Assessment Test, which is administered at the College, to determine course placement. (Students who received a score above 500 on the math and/or critical reading section of the SAT reasoning exam, or equivalent score on the ACT exam, are not required to sit for the placement test.) Transfer students with applicable college credit are also exempt from the Accuplacer, as are students in the Aviation Training Institute.

The Accuplacer Assessment Test is an approved Ability to Benefit (ATB) exam and is required for students who do not have a high school diploma or its equivalent from a United States high school and who are seeking financial aid awards under New York State’s Tuition Assistance Program (TAP). Students subject to the ATB exam requirement will be notified by their admissions counselor and referred to the Student Success Center for administration.

College Transcripts

College transcripts are required of all applicants who are seeking transfer credit for work completed at another regionally accredited college or university. Official transcripts noting any coursework from each institution you attended must be filed with the office of admissions. Transfer students who have completed their education in the US and have earned in excess of 24 semester hours of credit following completion of the high school diploma are not required to submit high school transcripts, but must submit proof of high school graduation (in the form of a final high school transcript, diploma or GED certificate).

International students, or students who attended college outside the US must submit their transcripts for evaluation to any National Association of Credential Evaluation Services (NACES) approved organization. The evaluations must then be forwarded to the office of admissions. Only NACES approved organization evaluations of college-level credit will be accepted when considering college transfer credit. The evaluation agency must indicate that the institution has accreditation equivalent to that of institutions recognized as accredited by the United States Department of Education. English-language translations are not sufficient.

INTERNATIONAL STUDENT APPLICANTS

International applicants should visit the international student section of Vaughn’s website, www.vaughn.edu, to read and download the latest information and forms. The International Application Supplement and Instructions should be the first document you review.

Applicants who have completed their secondary education in other countries are required to submit NACES evaluated copies of their records, in English. A fluent use of English, both written and spoken, is required and must be substantiated in one of the following ways:

1. An English Proficiency Certificate from an acceptable agency (e.g., the Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS)).
2. The completion of the equivalent of four American secondary school units in formal English instruction.
3. Students transferring from other American institutions must submit credentials that describe the admissions action and their academic progress at that institution.

Vaughn College reserves the right to require a student educated in another country to complete additional instruction in English if his/her performance so indicates.

Citizens of other countries who plan to study under F-1 visa regulations may be accepted only for full-time study, must have sufficient financial resources to fund their education without working in the US and must comply with F-1 visa requirements. The American Consulate in the prospective student's home country should be contacted regarding financial assistance programs available through governmental agencies.

The application for admission (with the required \$40 US fee), as well as the international application

supplement, is to be filed at least 90 days before the

start of the academic semester for which you are enrolling. The office of admissions will not review any international application submitted without the appropriate application fee.

FINANCES FOR INTERNATIONAL STUDENTS

All financial arrangements must be completed before departing for the US. Students who transfer to Vaughn from other institutions must file evidence of financial support directly with the admissions office.

An international student accepted for admission is required to submit a nonrefundable tuition deposit of \$600 US to reserve a place among the entering class. Once the affidavit of support and other proof of financial ability have been received, the College will issue a completed certificate of eligibility (Form I-20) to the student. This certificate must be presented to an American Consulate in order to obtain the student classification F visa.

First-year international students must pay tuition and fees in full by the first day of classes. In subsequent years, they are permitted to participate in the College's deferred payment plan. Students who fail to regularly meet their financial commitment after joining a payment plan will be immediately removed from the program.

Students with F visas who transfer from other American institutions should notify Vaughn's admissions office of this change upon applying. The College then will assist these students in processing the required government notification.

STUDENTS WITH DISABILITIES

While Vaughn does not make any preadmission inquiries about disabilities, applicants who require accommodations due to a disability are encouraged to confer with the admissions office after they receive notification of acceptance.

The Title 504 and Americans with Disabilities Act compliance officer at the College is the executive director of the student success center.

COSTS AND FINANCIAL POLICIES

SUMMARY OF 2017-2018 FEE SCHEDULE

| Activity | Fee |
|--|---|
| Academic-audit | \$795 per course |
| ATI-Audit | \$520 per course |
| Application | \$40 per application |
| Bypass exam | \$150 per credit |
| FCC License Review-AVT250 | \$925 |
| Flight Dispatch Certificate AD10 - Non degree | \$4000 |
| Certificate (AA02-Airframe) | \$365 per certificate |
| Certificate (AA02-General) | \$365 per certificate |
| Certificate (PP02 Powerplant) | \$365 per certificate |
| FAA Compliance Fee | \$50 per exam |
| FAA Written Exam Fee - FLT/110, 120, 330 | \$165 per exam - |
| FAA Exam Preparation - FLT/110, 120, 330 | \$100 per exam |
| ATC Simulation Fee ATC200L/ATC240L | \$750 per lab |
| ATC300 - Basic Air Traffic Control Capstone | |
| Review and Screening Course Fee | \$500 |
| Graduation Fee | \$100 per degree |
| Housing Deposit | \$125 per semester |
| Immunization | \$10 per shot |
| New Student Fee | \$160 |
| ID Fee | \$10 per card |
| Laboratory | \$65 per lab |
| Late Registration | \$75 per incident |
| Returned Check Fee | \$50 per incident |
| Matriculation maintenance | \$150 per semester (maximum two semesters) |
| Program Adjustment (add, drop, change of curriculum, etc.) | \$10 per transaction |
| Change of Curriculum | \$10 per transaction |
| Reentry | \$40 per application |
| Semester Fee (LaGuardia) | \$400 per semester |
| Simulator Fee | \$100 (per hour-simulator usage) |
| Management Simulation Fee MGT480 | \$85 |
| Management Comprehensive Exam Fee for APM485 | \$50 |
| Transcript | \$8 per transcript |
| Tuition Deposit | \$200 first semester |
| International Tuition Deposit | \$600 first semester |
| Overload-Academic-Over 18 credits | \$709 per credit |
| Distance Learning Undergraduate | \$715 per credit |
| Distance Learning Graduate | \$864 per credit |
| Engineering Fee | \$200 per semester |
| (for all AAS and BS Engineering/Engineering Technology students) | |
| FCC License Exam Fee-AVT250 | *Will be determined by the FCC Testing Center |
| FAA Written Exam Fee-FLT/360, 470, 471 | *Will be determined by the FCC Testing Center |

Locker Rental

\$20 for two semesters (fall and spring)
\$15 for one semester (fall and spring)
\$10 for both summer sessions

Tuition

Full-time Academic Admitted After 08/05 \$11,875 (12-18 credits) flat rate per semester
Part-time Academic Admitted After 08/05 \$795 per credit

Full-time Aviation Training Institute (ATI) Students \$8,385 flat rate per semester
Part-time ATI Students \$520 per credit

HOUSING CHARGES**Residence Hall Room Rates**

Single in a Two-Person Suite \$6,180 per semester
Double in a Four-Person Suite \$5,400 per semester
Triple Room Suite \$4,735 per semester
Quadruple Room Suite \$4,570 per semester

Meal Plans

Plan 1 (continuing students only) \$880 per semester
Plan 2 \$1,200 per semester
Plan 3 \$1,650 per semester
Plan 4 (continuing students only) \$595 per semester

Residential Fees

Key Replacement \$10
Late Checkout \$50 per hour beyond checkout date
Lockout \$5 per incident
Lost or Broken Key \$125 per core change
Housing Incident-Fine Determined at discretion of residence director
Improper Checkout Assessed in direct correlation to extent of damages

STUDENT AFFAIRS

NON-DISCRIMINATION/HARASSMENT

Vaughn College is committed to maintaining an environment in its educational programs and activities that is free from discrimination, harassment, or retaliation. The College expects that all of its members will treat each other fairly and equitably, and without regard to differences. These standards encompass applicants, students, faculty, staff, visitors and vendors, and are to be observed by all members of the community with respect to all of the College's operations.

Consistent with this commitment, it is the policy of Vaughn College not to tolerate unlawful discrimination or harassment based on age, race, color, creed, ethnic origin, religion, national origin, citizenship status, sex, gender, gender expression, sexual orientation, marital or partnership status, pregnancy, disability, military or veteran status, predisposing genetic characteristics, domestic violence status, or for any other legally protected basis. Such behavior is unlawful and undermines the character and purpose of Vaughn College.

This policy is not intended to abridge academic freedom, the open expression of ideas, or the College's educational mission, and does not extend to statements or written materials that are relevant and appropriately related to the subject matter of courses.

Any individual or group that feels there may have been discrimination or harassment is strongly encouraged to ask for guidance or file a complaint. The College will take steps to achieve a prompt and equitable resolution of any complaints. The College has appointed the Interim Vice President of Student Affairs and the Associate Vice President of Human Resources as officials responsible for coordinating efforts with regard to nondiscrimination, including Title IX (gender discrimination and sexual misconduct), and Section 504 and the Americans with Disabilities Act (disability discrimination).

For more information about this policy, or to learn about the procedure for addressing violations of this policy, you may contact:

Mary Durkin, AVP of Human Resources at
718 429-6600 extension 105
or mary.durkin@vaughn.edu

The College's policies on harassment and discrimination are further defined in the Student Handbook, which is distributed to all students and is also available through the office of student affairs and the sexual and gender based misconduct policy both of which are available online.

LOCKER RENTAL

A limited number of lockers are available for rent from the office of student affairs. Students have the option to rent per semester or per academic year. Fees are \$15 per semester, \$20 for both the fall and spring semesters, \$15 for both summer sessions and \$35 for the entire year. For more information, contact the office of student services at 718.429.6600, ext. 221.

UPDATED CURRICULUM SHEETS

ELECTRICAL ENGINEERING – (BS) CURRICULUM

| | | Lecture Credits | Lab Credits |
|--|---|--------------------|----------------|
| Seminars | | | |
| FYI101 | Freshman Year Initiatives | 3 | 0 |
| CD101 | Career Development Seminar | 0 | 0 |
| | Total Credits | 3 | 0 |
| Liberal Arts Courses | | | |
| ENG110 | English I | 3 | 0 |
| ENG120 | English II | 3 | 0 |
| ENG240 | Technical Writing | 3 | 0 |
| ENG290 | Public Speaking | 3 | 0 |
| ENG220 | American Literature | 3 | 0 |
| HUM255 | Technology and Culture | 3 | 0 |
| HIS141 | Global Civilization | 3 | 0 |
| POL254 | American Government | 3 | 0 |
| | Total Credits | 24 | 0 |
| Math and Sciences Courses | | | |
| CHE231 | Chemistry | 2 | 1 |
| MAT330 | Calculus III for Engineers | 3 | 0 |
| CSC316 | C++ Java Programming | 3 | 0 |
| MAT125 | Calculus I for Engineers | 3 | 0 |
| MAT225 | Calculus II for Engineers | 3 | 0 |
| MAT325 | Differential Equations for Engineers | 3 | 0 |
| MAT356 | Probability and Statistics | 3 | 0 |
| PHY125 | Engineering Physics | 3 | 1 |
| PHY225 | Physics II for Engineers | 3 | 1 |
| PHY335 | Modern Physics | 3 | 0 |
| MAT410 | Linear Algebra | 3 | 0 |
| | Total Credits | 32 | 3 |
| Mechatronic Engineering Courses | | | |
| CDE117 | Computer-aided Design I | 1 | 1 |
| CDE386 | CATIA for Wiring and Harnessing | 2 | 1 |
| ELE118 | Electric Circuits II | 1 | 1 |
| ELE320 | Linear System Analysis | 2 | 1 |
| EGR380 | Engineering Project Management | 3 | 0 |
| EGR460 | Engineering Economics | 3 | 0 |
| ELE117 | DC/AC Circuits | 2 | 1 |
| ELE220 | Electronic Circuits | 2 | 1 |
| ELE230 | Digital Systems Design | 2 | 1 |
| ELE326 | Microprocessors | 2 | 1 |
| ELE350 | Control Systems I | 2 | 1 |
| ELE323 | Electromagnetism | 3 | 0 |
| ELE330 | Principles of Communications Systems | 2 | 1 |
| ELE322 | Signals and Systems | 3 | 0 |
| MEE115 | Engineering Mechanics I (Statics) | 3 | 0 |
| ELE325 | Electric Machines | 2 | 1 |
| ELE355 | Microprocessor System Design and Interfacing | 2 | 1 |
| ELE375 | Engineering Reliability | 3 | 0 |
| ELE401 | Pre Capstone Project | 1 | 0 |
| ELE450 | Data Acquisition and Applied Control System Designs | 2 | 1 |
| MCE101 | Introduction to Robotics | 0 | 1 |
| ELE451 | Power Electronics | 1 | 1 |

ELECTRICAL ENGINEERING – (BS) CURRICULUM

| | | Lecture Credits | Lab Credits |
|--------|---------------------------------------|--------------------|----------------|
| MEE235 | Material Science and Failure Analysis | 3 | 0 |
| MEE340 | Computational Methods in Engineering | 3 | 0 |
| ELE409 | Senior Capstone Project | 3 | 0 |
| | Technical Elective | 1 | 1 |
| | Technical Elective | 1 | 1 |
| | Total Credits | 55 | 17 |

Total Lecture and Lab Credits **134**

Technical Electives

Any of the following courses can be taken as a technical elective toward a bachelor of science degree in the mechatronic engineering program.

| | | | |
|--------|---------------------------------|---|---|
| ELE452 | Introduction to Power Systems | 1 | 1 |
| ELE435 | Transmission and Distribution | 1 | 1 |
| MCE310 | Mechatronics Fundamentals - PLC | 1 | 1 |
| MCE420 | Robotics | 1 | 1 |
| ELE430 | Advanced Communications Systems | 1 | 1 |

ENGINEERING — (BS) MECHANICAL ENGINEERING CURRICULUM

| | | Lecture Credits | Lab Credits |
|---------------------------------------|--|-----------------|-------------|
| Seminars | | | |
| FYI101 | First Year Initiatives | 3 | 0 |
| CD101 | Career Development Seminar | 0 | 0 |
| | Total Credits | 3 | 0 |
| Arts and Science Courses | | | |
| ENG110 | English I | 3 | 0 |
| ENG120 | English II | 3 | 0 |
| ENG240 | Technical Writing | 3 | 0 |
| ENG290 | Public Speaking | 3 | 0 |
| | Choose a course from competency I | 3 | 0 |
| | Choose a course from competency F | 3 | 0 |
| | Choose two courses from competency C, E, G, H, I | 6 | 0 |
| | Total Credits | 24 | 0 |
| Math and Sciences Courses | | | |
| CSC316 | C++ | 3 | 0 |
| CHE231 | General Chemistry | 2 | 1 |
| MAT125 | Calculus I for Engineers | 3 | 0 |
| MAT225 | Calculus II for Engineers | 3 | 0 |
| MAT330 | Calculus III | 3 | 0 |
| MAT325 | Differential Equations for Engineers | 3 | 0 |
| MAT356 | Probability and Statistics | 3 | 0 |
| MAT410 | Linear Algebra | 3 | 0 |
| PHY125 | Engineering Physics I | 3 | 0 |
| PHY125 Lab | Engineering Physics I | 0 | 1 |
| PHY225 | Engineering Physics II | 3 | 0 |
| PHY225 Lab | Engineering Physics II | 0 | 1 |
| PHY335 | Modern Physics | 3 | 0 |
| | Total Credits | 32 | 3 |
| Mechanical Engineering Courses | | | |
| CDE117 | Computer-aided Design I | 1 | 0 |
| CDE117 Lab | Computer-aided Design I Lab | 0 | 1 |
| CDE385 | Intro to CATIA | 1 | 0 |
| CDE385 Lab | Intro to CATIA Lab | 0 | 1 |
| CDE486 | CATIA II | 1 | 0 |
| CDE486 Lab | CATIA II Lab | 0 | 1 |
| EGR230 | Mechanical Testing and Evaluation Lab | 0 | 1 |
| EGR375 | Thermo Fluid Lab | 0 | 1 |
| EGR380 | Engineering Project Management | 3 | 0 |
| EGR460 | Engineering Economics | 3 | 0 |
| ELE117 | DC/AC Circuits | 2 | 0 |
| ELE117 Lab | DC/AC Circuits | 0 | 1 |
| ELE350 | Control Systems | 2 | 0 |
| ELE350 Lab | Control Systems | 0 | 1 |
| MCE101 | Introduction to Robotics | 0 | 1 |
| MEE115 | Engineering Mechanics I (Statistics) | 3 | 0 |
| MEE210 | Thermodynamics | 3 | 0 |
| MEE220 | Mechanics of Materials | 4 | 0 |
| MEE215 | Engineering Mechanics II | 3 | 0 |
| MEE235 | Material Science and Failure Analysis | 3 | 0 |

ENGINEERING — (BS) MECHANICAL ENGINEERING CURRICULUM

| | | Lecture Credits | Lab Credits |
|--------|---|--------------------|----------------|
| MEE340 | Computational Methods with MATLAB | 3 | 0 |
| MEE345 | Fluid Mechanics | 3 | 0 |
| MEE350 | Mechanical Vibrations | 3 | 0 |
| MEE355 | Reliability Method in Structural Mechanics | 3 | 0 |
| MEE365 | Elements of Machine Design and Vibration Analysis | 3 | 0 |
| MEE370 | Finite Elements Analysis with MATLAB | 3 | 0 |
| MEE409 | Senior Degree Project | 3 | 0 |
| MEE440 | Heat Transfer | 3 | 0 |
| | Technical Electives | 8 | 2 |
| | Total Credits | 61 | 10 |

Total Lecture and Lab Credits

133

Technical Electives

Students in this program, in addition to 3 credit hours of a capstone design project are required to take 10 credit hours of open electives to give students freedom to concentrate in one of the following areas:

- Solid Mechanics and Structural Analysis
- Thermal Science and Aerodynamics
- Computer Aided Design & Computer Aided Engineering
- Control System and Robotics

Select two – 2 credits elective design course from the following:

| | | | |
|--------|--|---|---|
| MCE420 | Meachantronics II | 1 | 1 |
| EGR489 | Patran-Nastran FEA Structural Analysis | 1 | 1 |
| MEE450 | Aircraft Configuration Design | 1 | 1 |

Select two – 3 credits elective design course from the following:

| | | | |
|--------|--|---|---|
| MEE260 | Aerodynamics | 3 | 0 |
| MEE360 | Propulsion Power for Aircraft and Rocket Engines | 3 | 0 |
| MEE445 | Heating, Ventilation and Air Conditioning – HVAC | 3 | 0 |
| MEE455 | Aircraft Structural Analysis | 3 | 0 |
| MEE390 | Introduction to Composite Materials | 3 | 0 |

AAS ELECTRONIC ENGINEERING TECHNOLOGY - AVIONICS

| | | Lecture Credits | Lab Credits |
|--|---|-----------------|-------------|
| Seminars | | | |
| FYI101 | First Year Initiatives | 3 | 0 |
| CD101 | Career Development Seminar | 0 | 0 |
| | Total Credits | 3 | 0 |
| Liberal Arts and Sciences Courses | | | |
| ENG110 | English I | 3 | 0 |
| ENG120 | English II | 3 | 0 |
| ENG290 | Public Speaking | 3 | 0 |
| HIS141 | Global Civilization II | 3 | 0 |
| POL254 | American Government | 3 | 0 |
| | Total Credits | 15 | 0 |
| Math and Sciences Courses | | | |
| MAT115 | Pre-calculus | 4 | 0 |
| MAT120 | Calculus I | 4 | 0 |
| PHY120 | College Physics I | 3 | 1 |
| PHY220 | College Physics II | 3 | 1 |
| | Total Credits | 14 | 2 |
| Electronic Engineering Technology Courses | | | |
| AVT235 | Aircraft Navigation Systems | 2 | 0 |
| AVT235 Lab | Aircraft Navigation Systems Lab | 0 | 1 |
| AVT240 | Aircraft Pulse Systems | 2 | 0 |
| AVT240 Lab | Aircraft Pulse Systems Lab | 0 | 1 |
| AVT245 | Radar Systems | 2 | 0 |
| AVT245 Lab | Radar Systems Lab | 0 | 1 |
| AVT250 | FCC License Review | 0 | 0 |
| CDE117 | Engineering Graphics with Computer-aided Design/Solid Works | 1 | 0 |
| CDE117 Lab | Engineering Graphics Lab | 0 | 1 |
| EET115 | Electrical Circuits I | 2 | 0 |
| EET115 Lab | Electrical Circuits I Lab | 0 | 1 |
| EET116 | Electrical Circuits II | 2 | 0 |
| EET116 Lab | Electrical Circuits II Lab | 0 | 1 |
| EET125 | Digital Electronics | 2 | 0 |
| EET125 Lab | Digital Electronics Lab | 0 | 1 |
| EET210 | Electronic Laboratory Practices | 1 | 0 |
| EET210 Lab | Electronic Lab Practices Lab | 0 | 1 |
| EET220 | Electronic Circuits | 2 | 0 |
| EET220 Lab | Electronic Circuits Lab | 0 | 1 |
| EET230 | Principles of Communications Systems | 2 | 0 |
| EET230 Lab | Principles of Communications Systems Lab | 0 | 1 |
| | Technical Elective: | 3 | 0 |
| | EET325 PLC Programming <u>or</u> | | |
| | EGR235 Material Science and Composites | | |
| | Total Credits | 21 | 10 |
| Total Lecture and Lab Credits | | 65 | |

BS ELECTRONIC ENGINEERING TECHNOLOGY — AVIONICS CURRICULUM

| | | Lecture Credits | Lab Credits |
|--|--|--------------------|----------------|
| Seminars | | | |
| FYI101 | First Year Initiatives | 3 | 0 |
| CD101 | Career Development Seminar | 0 | 0 |
| | Total Credits | 3 | 0 |
| Liberal Arts Courses | | | |
| ECO255 | Economics | 3 | 0 |
| ENG110 | English I | 3 | 0 |
| ENG120 | English II | 3 | 0 |
| ENG240 | Technical Writing | 3 | 0 |
| ENG290 | Public Speaking | 3 | 0 |
| | Choose a course from competency I | 3 | 0 |
| | Choose a course from competency F | 3 | 0 |
| | Choose three courses from competency C, E, G, H, I | 9 | 0 |
| | Total Credits | 30 | 0 |
| Math and Sciences Courses | | | |
| MAT115 | Pre-calculus | 4 | 0 |
| MAT120 | Calculus I | 4 | 0 |
| MAT220 | Calculus II | 3 | 0 |
| MAT356 | Probability and Statistics | 3 | 0 |
| MAT445 | Differential Equations | 3 | 0 |
| PHY120 | College Physics I | 3 | 1 |
| PHY220 | College Physics II | 3 | 1 |
| | Math/Science Elective | 3 | 0 |
| | Total Credit | 26 | 2 |
| Electronic Engineering Technology Courses | | | |
| AVT235 | Aircraft Navigation Systems | 2 | 0 |
| AVT235 Lab | Aircraft Navigation Systems Lab | 0 | 1 |
| AVT240 | Aircraft Pulse Systems | 2 | 0 |
| AVT240 Lab | Aircraft Pulse Systems Lab | 0 | 1 |
| AVT245 | Radar Systems | 2 | 0 |
| AVT245 Lab | Radar Systems Lab | 0 | 1 |
| AVT250 | FCC License Review | 0 | 0 |
| AVT346 | Aircraft Power and Distribution Systems | 2 | 0 |
| AVT346 Lab | Aircraft Power and Distribution Systems Lab | 0 | 1 |
| AVT347 | Flight Control Systems | 2 | 0 |
| AVT347 Lab | Flight Control Systems Lab | 0 | 1 |
| AVT349 | Electronic Flight Instrument Systems | 2 | 0 |
| AVT349 Lab | Electronic Flight Instrument Systems Lab | 0 | 1 |
| AVT351 | Advanced Navigation Systems | 2 | 0 |
| AVT351 Lab | Advanced Navigation Systems Lab | 0 | 1 |
| AVT352 | Integrated Avionics Systems | 3 | 0 |
| AVT453 | Traffic Alert/Collision Avoidance Systems | 2 | 0 |
| AVT453 Lab | Traffic Alert/Collision Avoidance Systems Lab | 0 | 1 |
| AVT454 | Avionics Installation/Maintenance | 2 | 0 |
| AVT454 Lab | Avionics Installation/Maintenance Lab | 0 | 1 |
| 13 AVT455 | Avionics Reliability/Maintainability | 3 | 0 |
| AVT456 | Avionics Integrated Logistics Support | 3 | 0 |
| AET409 | Degree Project | 3 | 0 |
| CDE117 | Computer-aided Design I | 1 | 0 |
| CDE117 Lab | Computer-aided Design I Lab | 0 | 1 |
| EET115 | Electrical Circuits I | 2 | 0 |
| EET115 Lab | Electrical Circuits I Lab | 0 | 1 |

*Refer to page 62 for a list of competencies and associated courses.

BS ELECTRONIC ENGINEERING TECHNOLOGY – AVIONICS CURRICULUM

| | | Lecture Credits | Lab Credits |
|--|--|--------------------|----------------|
| Electronic Engineering Technology Courses | | | |
| EET116 | Electrical Circuits II | 2 | 0 |
| EET116 Lab | Electrical Circuits II Lab | 0 | 1 |
| EET125 | Digital Electronics | 2 | 0 |
| EET125 Lab | Digital Electronics Lab | 0 | 1 |
| EET210 | Electronic Laboratory Practices | 1 | 0 |
| EET210 Lab | Electronic Laboratory Practices Lab | 0 | 1 |
| EET220 | Electronic Circuits | 2 | 0 |
| EET220 Lab | Electronic Circuits Lab | 0 | 1 |
| EET230 | Principles of Communications Systems | 2 | 0 |
| EET230 Lab | Principles of Communications Systems Lab | 0 | 1 |
| EET326 | Microprocessors | 2 | 0 |
| EET326 Lab | Microprocessors Lab | 0 | 1 |
| EGR380 | Engineering Project Management | 3 | 0 |
| | Technical Elective | 2 | 1 |
| | Total Credits | 49 | 18 |

Total Lecture and Lab Credits

128

Technical Electives

The following courses can be taken as a technical elective toward a bachelor of science degree in the EET-Avionics concentration program.

| | | | |
|--------|-----------------------|---|---|
| CDE386 | Wiring and Harnessing | 2 | 1 |
| EET325 | PLC Programming | 2 | 1 |
| AET401 | Internship Course | 3 | 0 |

BS ELECTRONIC ENGINEERING TECHNOLOGY — ELECTRONICS CURRICULUM

| | | Lecture Credits | Lab Credits |
|--|---|-----------------|-------------|
| Seminars | | | |
| FYI101 | First Year Initiatives | 3 | 0 |
| CD101 | Career Development Seminar | 0 | 0 |
| | Total Credits | 3 | 0 |
| Liberal Arts Courses | | | |
| ENG110 | English I | 3 | 0 |
| ENG120 | English II | 3 | 0 |
| ENG240 | Technical Writing | 3 | 0 |
| ENG290 | Public Speaking | 3 | 0 |
| | Choose a course from competency F | 3 | 0 |
| | Choose a course from competency I | 3 | 0 |
| | Choose four courses from competency C, F, G, H, I | 12 | 0 |
| | Total Credits | 30 | 0 |
| Math and Sciences Courses | | | |
| MAT115 | Pre-calculus | 4 | 0 |
| MAT120 | Calculus I | 4 | 0 |
| MAT220 | Calculus II | 3 | 0 |
| | Math Elective | 3 | 0 |
| MAT445 | Differential Equations | 3 | 0 |
| PHY120 | College Physics I | 3 | 1 |
| PHY220 | College Physics II | 3 | 1 |
| PHY335 | College Physics III | 3 | 0 |
| | Choose a course from competency B | 3 | 0 |
| | Total Credits | 29 | 2 |
| Electronic Engineering Technology Courses | | | |
| CDE117 | Computer-aided Design I | 1 | 0 |
| CDE117 Lab | Computer-aided Design I Lab | 0 | 1 |
| CDE385 | CATIA Fundamentals | 1 | 0 |
| CDE385 Lab | CATIA Fundamentals Lab | 0 | 1 |
| CDE386 | CATIA for Wiring and Harnessing | 2 | 0 |
| CDE386 Lab | CATIA for Wiring and Harnessing | 0 | 1 |
| EET409 | Degree Project | 3 | 0 |
| EET115 | Electrical Circuits I | 2 | 0 |
| EET115 Lab | Electrical Circuits I Lab | 0 | 1 |
| EET116 | Electrical Circuits II | 2 | 0 |
| EET116 Lab | Electrical Circuits II Lab | 0 | 1 |
| EET125 | Digital Electronics | 2 | 0 |
| EET125 Lab | Digital Electronics Lab | 0 | 1 |
| EET210 | Electronic Laboratory Practices | 1 | 0 |
| EET210 Lab | Electronic Laboratory Practices Lab | 0 | 1 |
| EET220 | Electronic Circuits | 2 | 0 |
| EET220 Lab | Electronic Circuits Lab | 0 | 1 |
| EET230 | Principles of Communications Systems | 2 | 0 |
| EET230 Lab | Principles of Communications Systems Lab | 0 | 1 |
| AVT240 | Pulse Circuits | 2 | 0 |
| AVT240 Lab | Pulse Circuits Lab | 0 | 1 |
| EET326 | Microprocessors | 2 | 0 |
| EET326 Lab | Microprocessors Lab | 0 | 1 |

BS ELECTRONIC ENGINEERING TECHNOLOGY – ELECTRONICS CURRICULUM

| | | Lecture Credits | Lab Credits |
|--|--|--------------------|----------------|
| Electronic Engineering Technology Courses | | | |
| EET345 | Computer Control of Instruments (Lab View Programming) | 2 | 0 |
| EET345 Lab | Computer Control of Instruments (Lab View Programming) Lab | 0 | 1 |
| EET350 | Control Systems | 2 | 0 |
| EET350 Lab | Control Systems Lab | 0 | 1 |
| EET355 | Advanced Microprocessors and Peripherals | 2 | 0 |
| EET355 Lab | Advanced Microprocessors and Peripherals Lab | 0 | 1 |
| EET475 | Reliability and Maintainability | 3 | 0 |
| EGR235 | Material Science and Composites | 3 | 0 |
| EGR380 | Engineering Project Management | 3 | 0 |
| EGR460 | Engineering Economics | 3 | 0 |
| EET445 | Principles of Communications Networks | 3 | 0 |
| | Technical Elective | 2 | 1 |
| | Total Credits | 45 | 15 |

Technical Electives

The following courses can be taken as a technical elective toward the BS degree in the EET-Electronic concentration program:

| | | | |
|--------|-------------------|---|---|
| AVT245 | Radar Systems | 2 | 1 |
| EET401 | Internship Course | 3 | 0 |
| EET325 | PLC Programming | 2 | 1 |

Total Lecture and Lab Credits

124

AAS Airport Management Curriculum

| | | Lecture Credits | Lab Credits |
|--|---|--------------------|----------------|
| Seminars | | | |
| FYI101 | First Year Initiatives | 3 | 0 |
| CD101 | Career Development Seminar | 0 | 0 |
| | Total Credits | 3 | 0 |
| Liberal Arts Courses | | | |
| ENG110 | English I | 3 | 0 |
| ENG120 | English II | 3 | 0 |
| ENG240 | Technical Writing | 3 | 0 |
| ENG290 | Public Speaking | 3 | 0 |
| HIS141 | Global Civilization | 3 | 0 |
| POL254 | American Government | 3 | 0 |
| | Total Credits | 18 | 0 |
| Math and Sciences Courses | | | |
| MAT115 | Pre-calculus | 4 | 0 |
| MAT210 | Introduction to Statistics | 3 | 0 |
| PHY120 | Physics I | 3 | 1 |
| | Total Credits | 10 | 1 |
| Management and Aviation Courses | | | |
| AER101/FLT110/ AER300 | Introduction to Aeronautics/General Aeronautics/Current Topics | 3/4/3 | 0 |
| APM241 | Airport Administration | 3 | 0 |
| APM485 | Airport Development and Management | 3 | 0 |
| ATC200 | Basic Air Traffic Control I | 2 | 2 |
| ATC220/FLT230 | ATC Weather/Aviation Weather | 3 | 0 |
| ECO255 | Principles of Economics | 3 | 0 |
| FLT241 | Aviation Safety | 3 | 0 |
| MGT110 | Introduction to Management | 3 | 0 |
| MGT120 | Principles of Accounting | 3 | 0 |
| MGT230 | Financial Management | 3 | 0 |
| MGT470 | Industry and Labor Relations | 3 | 0 |
| | Management, Aviation, Engineering/Technology Upper Level Elective | 3 | 0 |
| | Total Credits | 35/36 | 2/ |
| Total Lecture and Lab Credits | | 69/70 | |

BS Airport Management Curriculum

| | | Lecture Credits | Lab Credits |
|--|---|-----------------|-------------|
| Seminars | | | |
| FY1101 | First Year Initiatives | 3 | 0 |
| CD101 | Career Development Seminar | 0 | 0 |
| | Total Credits | 3 | 0 |
| Liberal Arts Courses | | | |
| ENG110 | English I | 3 | 0 |
| ENG120 | English II | 3 | 0 |
| ENG240 | Technical Writing | 3 | 0 |
| ENG290 | Public Speaking | 3 | 0 |
| FRE160/SPA160 | Foreign Language Requirement I | 3 | 0 |
| FRE261/SPA261 | Foreign Language Requirement II | 3 | 0 |
| | Choose a course from competency B | 3 | 0 |
| | Choose a course from competency I | 3 | 0 |
| | Choose three courses from competency C, F, G, H, I | 9 | 0 |
| | Total Credits | 36 | 0 |
| Math and Sciences Courses | | | |
| MAT115 | Pre-calculus | 4 | 0 |
| MAT120 | Calculus I | 4 | 0 |
| MAT210 | Introduction to Statistics | 3 | 0 |
| PHY120 | Physics I | 3 | 1 |
| PHY220 | Physics II | 3 | 1 |
| | Choose a course from competencies A, B, D, E | 3 | 0 |
| | Total Credits | 20 | 2 |
| Additional Course | | | |
| CDE117 | Engineering Graphics With Computer-aided Design | 1 | 1 |
| | Total Credits | 1 | 1 |
| Management and Aviation Courses | | | |
| AER101/FLT110/ AER300 | Introduction to Aeronautics/General Aeronautics/Current Topics | 3/4/3 | 0 |
| ALM362 | Airline Management | 3 | 0 |
| APM241 | Airport Administration | 3 | 0 |
| APM485 | Airport Development and Management | 3 | 0 |
| ATC200 | Basic Air Traffic Control I | 2 | 2 |
| ATM320 | Aviation Law | 3 | 0 |
| ECO255 | Principles of Economics | 3 | 0 |
| FLT241 | Aviation Safety | 3 | 0 |
| FLT384 | Aviation Environmental Issues | 3 | 0 |
| MGT110 | Introduction to Management | 3 | 0 |
| MGT120 | Principles of Accounting | 3 | 0 |
| MGT210 | Organizational Behavior | 3 | 0 |
| MGT230 | Financial Management | 3 | 0 |
| MGT360 | Business Communications | 3 | 0 |
| MGT372 | Marketing Management and Public Relations | 3 | 0 |
| MGT403 | Internship - Degree Project | 3 | 0 |
| MGT470 | Industry and Labor Relations | 3 | 0 |
| MGT480 | Capstone: Strategic Management | 3 | 0 |
| | Aviation, Engineering/Technology or Management Upper Level Elective | 6 | 0 |
| | Total Credits | 62/63 | 2 |
| Total Lecture and Lab Credits | | 127/128 | |

BS Airline Management Curriculum

| | | Lecture Credits | Lab Credits |
|--|---|-----------------|-------------|
| Seminars | | | |
| FYI101 | First Year Initiatives | 3 | 0 |
| CD101 | Career Development Seminar | 0 | 0 |
| | Total Credits | 3 | 0 |
| Liberal Arts Courses | | | |
| ENG110 | English I | 3 | 0 |
| ENG120 | English II | 3 | 0 |
| ENG240 | Technical Writing | 3 | 0 |
| ENG290 | Public Speaking | 3 | 0 |
| FRE160/SPA160 | Foreign Language Requirement I | 3 | 0 |
| FRE261/SPA261 | Foreign Language Requirement II | 3 | 0 |
| | Choose a course from competency F | 3 | 0 |
| | Choose a course from competency I | 3 | 0 |
| | Choose three courses from competency C, F, G, H, I | 9 | 0 |
| | Total Credits | 33 | 0 |
| Math and Sciences Courses | | | |
| MAT115 | Pre-calculus | 4 | 0 |
| MAT120 | Calculus I | 4 | 0 |
| MAT210 | Introduction to Statistics | 3 | 0 |
| PHY120 | Physics I | 3 | 1 |
| PHY220 | Physics II | 3 | 1 |
| | Choose a course from competencies B | 3 | 0 |
| | Total Credits | 20 | 2 |
| Management and Aviation Courses | | | |
| AER101/FLT110/ AER300 | Introduction to Aeronautics/General Aeronautics/Current Topics | 3/4/3 | 0 |
| APM241 | Airport Administration | 3 | 0 |
| ALM362 | Airline Management | 3 | 0 |
| ATC200 | Basic Air Traffic Control I | 2 | 2 |
| ATM320 | Aviation Law | 3 | 0 |
| ATM450 | Air Transport and Cargo Management | 3 | 0 |
| ECO255 | Principles of Microeconomics | 3 | 0 |
| FLT241 | Aviation Safety | 3 | 0 |
| FLT384 | Aviation Environmental Issues | 3 | 0 |
| MGT110 | Introduction to Management | 3 | 0 |
| MGT120 | Principles of Accounting | 3 | 0 |
| MGT210 | Organizational Behavior | 3 | 0 |
| MGT230 | Financial Management | 3 | 0 |
| MGT240 | Managerial Economics | 3 | 0 |
| MGT360 | Business Communications | 3 | 0 |
| MGT372 | Marketing Management and Public Relations | 3 | 0 |
| MGT403 | Internship - Degree Project | 3 | 0 |
| MGT470 | Industry and Labor Relations | 3 | 0 |
| MGT480 | Capstone: Strategic Management | 3 | 0 |
| | Management, Aviation or Engineering/Technology Upper Level Elective | 12 | 0 |
| | Total Credits | 68/69 | 2 |
| | Total Lecture and Lab Credits | 127/128 | |

BS General Management Curriculum

| | | Lecture Credits | Lab Credits |
|-----------------------------------|--|--------------------|----------------|
| Seminars | | | |
| FYI101 | First Year Initiatives | 3 | 0 |
| CD101 | Career Development Seminar | 0 | 0 |
| | Total Credits | 3 | 0 |
| Liberal Arts Courses | | | |
| ENG110 | English I | 3 | 0 |
| ENG120 | English II | 3 | 0 |
| ENG240 | Technical Writing | 3 | 0 |
| ENG290 | Public Speaking | 3 | 0 |
| FRE160/SPA160 | Foreign Language Requirement I | 3 | 0 |
| FRE261/SPA261 | Foreign Language Requirement II | 3 | 0 |
| | Choose a course from competency F | 3 | 0 |
| | Choose a course from competency I | 3 | 0 |
| | Choose three courses from competency C, F, G, H, I | 9 | 0 |
| | Total Credits | 33 | 0 |
| Math and Sciences Courses | | | |
| MAT115 | Pre-calculus | 4 | 0 |
| MAT120 | Calculus I | 4 | 0 |
| MAT210 | Introduction to Statistics | 3 | 0 |
| PHY120 | Physics I | 3 | 1 |
| PHY220 | Physics II | 3 | 1 |
| | Choose a course from competencies B | 3 | 0 |
| | Total Credits | 20 | 2 |
| General Management Courses | | | |
| ECO255 | Principles of Economics | 3 | 0 |
| MGT110 | Introduction to Management | 3 | 0 |
| MGT120 | Principles of Accounting | 3 | 0 |
| MGT210 | Organizational Behavior | 3 | 0 |
| MGT220 | Corporate Accounting | 3 | 0 |
| MGT230 | Financial Management | 3 | 0 |
| MGT360 | Business Communications | 3 | 0 |
| MGT372 | Marketing Management and Public Relations | 3 | 0 |
| MGT403 | Internship - Degree Project | 3 | 0 |
| MGT470 | Industry and Labor Relations | 3 | 0 |
| MGT480 | Capstone: Strategic Management | 3 | 0 |
| | Aviation, Management or Technology Upper Level Electives | 12 | 0 |
| | Total Credits | 36 | 0 |
| | Open Electives | 30 | |
| | Total Lecture and Lab Credits | | 124 |

UPDATED INDUSTRY ADVISORY COUNCILS

ENGINEERING AND TECHNOLOGY DEPARTMENT ADVISORY COUNCIL

PABLO ALMIEDA
Magellan Aerospace

ROBERT ANDERSEN
Bakery Innovative Technologies

DR. ABDEL BELKHARRAZ
LaGuardia Community College

MATT BERGER
MCLI

MARVIN BLACKMAN
Wunderlick-Malec

APARICIO CARRANZA
CUNY-New York City College of Technology

DR. HENDRICK DELCHAM
LaGuardia Community College

RONALD DIAZ
Columbia University

RICHARD ENDERS
Belcan Corporation

RON FAZAH
JetBlue

COREY GOOSBY
Sikorsky Aircraft

MAX GROSS
Sci Max Technologies/The Composite
Prototyping Center

MUHAMMAD IJAZ
US Patent and Trademark Office

ROBERT ISOLDI
CPI

SHAHIDUL ISLAM
Labtech

TERRY JACK
Sikorsky Aircraft Corporation

MICHAEL A. JOSEPH II
Corning Incorporated

JOSEPH KAMEL '11
Bosch

SHAMIN KHAN
Consolidated Edison Company of New York

SHIVA LALL
Federal Aviation Administration (FAA)

TOMASZ LOMECKI
Sikorsky Aircraft Corporation/U.T.C.

JAMIE MOORE
Addapt

DR. YVES NGABONZIZA
LaGuardia Community College

MICHAEL NIGRO
MG Engineering

MUHAMMAD NOMAN
Lockheed Martin/Sikorsky Aircraft

SHAWN OOSMAN
NYC Department of Education

JOHN PAVON '02
Pavon Manufacturing Group

MATTHEW PEARCE
NASA

DIOGENES RAMOS
Federal Aviation Administration (FAA)

AYRA RANASINGH
Micro Merchant Systems

MANNY SANTANA
Defense Contract Management Agency

FRANK SCALZO
NASA

OLIVER SCHEEL
U.S. Didactic

BEANT SINGH
Honeywell

**ENGINEERING AND TECHNOLOGY DEPARTMENT
ADVISORY COUNCIL (CONTINUED)**

RAJDEEP SINGH
Sikorsky Aircraft Corporation

RAUL TELLES
Consolidated Edison Company of New York

PETER TROGOS
Dassault Systems

JOSE ULLOA
RCM Technologies

HANS VAN OPHEMERT
American Airlines (Retired)

NICK VISCIOTTI
Cyient

DI YANG
Federal Aviation Administration

S. ZAINULE
Thomas Edison High School

AVIATION DEPARTMENT ADVISORY COUNCIL

LORETTA ALKALAY, ESQ.
Regional Counsel
Federal Aviation Administration (ret.)

MICHAEL BARTRON
Pratt & Whitney

THE HONORABLE JOHN GOGLIA
National Transportation Safety Board (ret.)

GILBERT GONZALEZ
Atlas Air

GLEN HAUSSMANN
Flight Safety

KEVIN HYATT
JetBlue

STEVE MIKHLIN, '99
Marsh USA

DAVID PRICE
Consultant, UAS Industry

JEFFREY TIME
Port Authority New York/ New Jersey

NEW COURSE OFFERINGS AND UPDATED COURSE DESCRIPTIONS

APM 485 – Airport Development and Management - 3 Credits

This course develops skills and understanding of the operation, management and conceptual design of airports of any size. The course contents will cover the finance and administration of airports; airport planning; airport operations, maintenance, and security; as well as airport community affairs and relationships with other stakeholders. Course content will focus on practical application of airport management and airport operations knowledge. The course will also include content to help students prepare to obtain the Certified Membership (C.M.) and Airport Certified Employee (ACE)—Operations qualifications awarded by the American Association of Airport Executives (AAAE).

ATC350 – CURRENT AND FUTURE TRENDS IN AIR TRAFFIC CONTROL - 3 credits

This course focuses on the operation of today's air traffic control system and the near and mid-term changes to it that will be occurring due to NEXTGEN technological enhancements. It includes such topics as national and international ATC procedures and flight planning, an in-depth review of ICAO Annex 11, traffic flow management strategies, airspace analysis, ATC safety management systems, FAA automation initiatives, remote ATC towers, and oceanic ATC. It will study the world-wide trend toward privatization of Air Navigation Service Providers (ANSPs) and potential impacts on the United States. It will explore and discuss the impact of evolving navigation and surveillance technologies on both ATC and flight operations. A research project will be required. This course will benefit those students planning on careers in air traffic control. It will also benefit flight and airport management students by making them more aware of how emerging trends and technologies are modifying the present and future National Airspace System. Prerequisite: FLT110 OR FLT250 OR ATC200

ECO255 – INTRODUCTION TO MACROECONOMICS – 3 credits

This first course in economics will begin with basic concepts in Economics and the tools of economic analysis. Topics covered include supply and demand, their determinants and market equilibrium, total output and growth of an economy, employment, inflation and interest rates. The course will finish with an introduction to international economics. Prerequisite: MAT 115

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ELE401 – PRE CAPSTONE PROJECT – 1 credit

This course prepares senior electrical engineering students for their capstone degree project. In this course, students begin working on their capstone degree project by studying the engineering design process and learning about professional topics related to the electrical engineering industry. Topics in the engineering

design process include customer needs identification, project concept generation and selection, engineering specifications, costs and project planning. Professional topics include communication, teamwork, ethics, safety, sustainability, globalization and engineering economics. Students work in a team to develop a project topic, specifications and a project plan, perform background research necessary to fully understand the project and the problem solving approach. Students are evaluated on their proposal report and presentation skills, as well as their ability to function as a team. Prerequisites: Seven semester standing, ELE330.

ELE452 – INTRODUCTION TO POWER SYSTEMS – 3 credits

This course focuses on the study of the different elements that form an electric power system, and their interactions. Topics include generation, transmission, distribution, energy management, control with SCADA, synchronization, protection, reactive power compensation, smart grid. Prerequisites: ELE325.

ELE453 – TRANSMISSION AND DISTRIBUTION – 3 credits

This course discusses the design and analysis of high voltage transmission lines and middle voltage distribution lines; conductors, corona, insulators, clearances, DC characteristics, feeders, voltage drop, capacitive effects will be covered. Prerequisites: ELE325.

ENG 225 – Film Studies – 3 Credits

This class surveys the history, origins and influences of American film. We will consider American cinema as an art form, an industry, and a system of representation. We will explore the process by which an American identity is both formed and reflected through movies, as well as how films work technically, aesthetically and culturally.

FLT110 – GENERAL AERONAUTICS – 4 credits

Subjects include theory of flight, environmental effects, basic aircraft and powerplant systems, weight and balance, operating data, basic navigation, basic meteorology, air traffic control principles, aviation safety and federal aviation regulations. Upon successful completion of this course, the student will have gained the aeronautical knowledge and experience necessary to apply for a Federal Aviation Administration (FAA) Private Pilot written examination. A grade of C or better is required to complete this course. The FAA Private Pilot written exam must be successfully passed before applying to take the FAA practical exam (airplane check ride). The Flight Instructor will evaluate student's knowledge during the flight phase and authorize the student to take the written exam. ATC students taking this course must complete the simulator lab.

As part of the laboratory experience, students are required to take five hours of simulator training and additional training to prepare for the FAA written exam. Class II FAA medical certificate and financial counseling is required for students in the aircraft operations program.

An exam, simulator and seminar lab fee are required.

FLT 384 – Aviation Environmental Issues – 3 Credits

This course is an in-depth study of the environmental concerns within the aviation industry and how policy and decision-makers can implement effective strategies toward compatibility between the aviation industry and its environment. The course covers methods of managing the environmental effects of aviation. It presents various environmental issues faced by airports and airlines, including legal and regulatory aspects, noise, pollution, and the ways that management can deal with various environmental situations ethically and profitably.

MGT110 – INTRODUCTION TO MANAGEMENT – 3 credits

This course introduces theories of effective management through the use of practical situations. Coursework develops skills necessary for supervision, such as effective use of labor and motivation techniques.

MGT230 – FINANCIAL MANAGEMENT – 3 credits

Topics covered include financial statements, the environment and institutions. Students learn about the time value of money, interest rates, discounting and compounding. Other issues addressed are financial assets and their valuation, financial decision making over the long and short terms, and international financial markets. Prerequisites: MAT115, MGT120

MGT240 – MANAGERIAL ECONOMICS – 3 credits

This course provides the student with an understanding of the fundamentals of microeconomics. Topics include cost behavior, perfect competition, monopoly, imperfect competition and oligopoly. Prerequisites: ENG110, MAT115; spring offering only

MGT403 – INTERNSHIP - DEGREE PROJECT – 3 credits

Students in the BS programs in airport, airline and general management apply their classroom learning to management internship for credit by participating in an internship in a business related to their major. In addition to the internship, students are required to complete written assignments and an oral presentation in

consultation with a faculty adviser. A research project is required for all management students who take MGT403.

The following courses are available for Reduced Air Transport Pilot (RATP) Credit:

ATC200, ATM320, ATM452, FLT110, FLT111, FLT120, FLT121, FLT221, FLT230, FLT240, FLT241, FLT330, FLT331, FLT345, FLT360, FLT361, FLT385, FLT447, FLT470, FLT471, FLT472, FLT480, FLT481, PHY120, PHY220

ACADEMIC CALENDAR 2018 – 2019*

* All dates are subject to change. Check the website: www.vaughn.edu.

FALL SEMESTER 2018

| | |
|--|---|
| Registration | Mon., March 5, 2018 through Sat., September 2, 2018** |
| Labor Day Holiday | Mon., September 3 |
| Classes Begin | Tues., September 4, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Tues., September 4 |
| Tuition Payment Due | Tues., September 4 |
| Program Adjustment Period (<i>add/drop/change</i>) | Tues., September 4 through Sat., September 15 |
| Last Day to Register | Sat., September 15 |
| Last Day to File for May 2019 Graduation | Mon., October 1 |
| Columbus Day Holiday | Mon., October 8 |
| Monday Schedule | Tues., October 9 |
| Midterm Exam Period | Mon., October 15 through Sat., October 20 |
| Last Day to Withdraw without Academic Penalty | Tues., November 6 |
| Veterans Day | Sun., November 11 |
| Thanksgiving Recess | Wed., November 21 through Sun., November 25 |
| Classes Resume | Mon., November 26, 8 a.m. |
| Classes End | Fri., December 14 |
| Exam Period | Mon., December 17 through Fri., December 21 |
| Spring/Summer 2018 Grade Change Deadline | Fri., December 22 |
| Winter Recess | Sat., December 24 through Mon., January 21, 2018 |

SPRING SEMESTER 2019

| | |
|--|--|
| Registration | Mon., March 5, 2018 through Sat., January 19, 2019** |
| Dr. Martin Luther King Jr. Day Holiday | Mon., January 21 |
| Classes Begin | Tues., January 22, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Tues., January 22 |
| Tuition Payment Due | Tues., January 22 |
| Program Adjustment Period (<i>add/drop/change</i>) | Tues., January 22 through Sat., February 2 |
| Last Day to Register | Sat., February 2 |
| Presidents Day Holiday | Mon., February 18 |
| Monday Schedule | Tues., February 19 |
| Midterm Exam Period | Mon., February 25 through Sat., March 2 |
| Last Day to Withdraw without Academic Penalty | Tues., March 26 |
| Spring Recess | Mon., March 25 through Sun., March 30 |
| Classes Resume | Mon., March 31, 8 a.m. |
| Last Day to File for September 2018 Graduation | Mon., March 31 |
| Classes End | Tues., May 1 |
| Exam Period | Wed., May 8 through Tues., May 14 |
| Fall 2018 Grade Change Deadline | Tues., May 7 |
| Honors Convocation | Wed., May 8 |
| Commencement | Sat., May 18 |

ACADEMIC SESSION I SUMMER 2019

| | |
|--|---|
| Registration | Mon., March 5, 2018, through Fri., May 17, 2019** |
| Classes Begin | Mon., May 20, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Mon., May 20 |
| Tuition Payment Due | Mon., May 20 |
| Program Adjustment Period (<i>add/drop/change</i>) | Mon., May 20 through Wed., May 22 |
| Last Day to Register | Wed., May 22 |
| Memorial Day Holiday | Mon., May 27 |
| Last Day to Withdraw without Academic Penalty | Mon., June 10 |
| Classes End | Fri., June 28 |
| Last Day to File for December 2018 Graduation | Fri., June 28 |
| Summer Recess | Mon., July 1 through Sun., July 7 |

ACADEMIC SESSION II SUMMER 2019

| | |
|--|--|
| Registration | Mon., March 6, 2018, through Fri., June 28, 2019** |
| Classes Begin | Mon., July 8, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Mon., July 8 |
| Tuition Payment Due | Mon., July 8 |
| Program Adjustment Period (<i>add/drop/change</i>) | Mon., July 8 through Wed., July 10 |
| Last Day to Register | Wed., July 10 |
| Last Day to Withdraw without Academic Penalty | Mon., July 29 |
| Classes End | Fri., August 16 |

** (Early registration and/or online registration may be available by contacting academic advisement)

AVIATION TRAINING INSTITUTE CALENDAR 2018 – 2019*

* All dates are subject to change. Check the website: www.vaughn.edu.

FALL SEMESTER 2018

| | |
|--|---|
| Registration | Mon., March 5, 2018 through Sat., September 2, 2018** |
| Labor Day Holiday | Mon., September 3 |
| Classes Begin | Tues., September 4, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Tues., September 4 |
| Tuition Payment Due | Tues., September 4 |
| Program Adjustment Period (<i>add/drop/change</i>) | Tues., September 4 through Sat., September 15 |
| Last Day to Register | Sat., September 15 |
| Last Day to File for May 2019 Graduation | Mon., October 1 |
| Last Day to Withdraw without Academic Penalty | Tues., November 6 |
| Veterans Day Observed | Mon., November 12 |
| Monday Schedule | Tues., November 13 |
| Thanksgiving Recess | Wed., November 21 through Sun., November 25 |
| Classes Resume | Mon., November 26, 8 a.m. |
| Classes End | Fri., December 14 |
| Spring/Summer 2018 Grade Change Deadline | Sat., December 22 |
| Winter Recess | Sat., December 24 through Mon., January 21, 2018 |

SPRING SEMESTER 2019

| | |
|--|--|
| Registration | Mon., March 5, 2018 through Sat., January 19, 2019** |
| Classes Begin | Mon., January 14, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Mon., January 14 |
| Tuition Payment Due | Mon., January 14 |
| Program Adjustment Period (<i>add/drop/change</i>) | Mon., January 14 through Sat., January 19 |
| Last Day to Register | Sat., January 19 |
| Dr. Martin Luther King Jr. Day Holiday | Mon., January 21 |
| Presidents Day Holiday | Mon., February 18 |
| Monday Schedule | Tues., February 19 |
| Last Day to Withdraw without Academic Penalty | Mon., March 26 |
| Spring Recess | Mon., March 25 through Sun., March 30 |
| Classes Resume | Mon., April 1, 8 a.m. |
| Last Day to File for September 2018 Graduation | Mon., April 1 |
| Classes End | Tues., April 30 |
| Fall 2018 Grade Change Deadline | Tues., May 7 |
| Honors Convocation | Wed., May 8 |
| Commencement | Sat., May 18 |

SESSION I SUMMER 2019

| | |
|--|--|
| Registration | Mon., March 5, 2018 through Sat., May 11, 2019** |
| Classes Begin | Mon., May 13, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Mon., May 13 |
| Tuition Payment Due | Mon., May 13 |
| Program Adjustment Period (<i>add/drop/change</i>) | Mon., May 13 through Tues., May 14 |
| Last Day to Register | Tues., May 14 |
| Memorial Day Holiday | Mon., May 27 |
| Last Day to Withdraw without Academic Penalty | Mon., June 3 |
| Classes End | Fri., June 28 |
| Last Day to File for December 2018 Graduation | Fri., June 28 |
| Summer Recess | Mon., July 1 through Sun., July 7 |

SESSION II SUMMER 2018

| | |
|--|--|
| Registration | Mon., March 5, 2018, through Fri., June 28, 2019** |
| Classes Begin | Mon., July 8, 8 a.m. |
| Late Registration Begins (<i>late fee will be imposed</i>) | Mon., July 8 |
| Tuition Payment Due | Mon., July 8 |
| Program Adjustment Period (<i>add/drop/change</i>) | Mon., July 8 through Tues., July 9 |
| Last Day to Register | Tues., July 9 |
| Last Day to Withdraw without Academic Penalty | Mon., July 29 |
| Classes End | Fri., August 23 |

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The M60 bus is a local service between Morningside Heights, Manhattan and LaGuardia Airport, Queens. The bus leaves from Broadway and West 106th Street, proceeds north on Broadway and then east on 125th Street. It crosses the Robert F. Kennedy (Triborough) Bridge into Queens and stops across the street from the College on 23rd Avenue at 87th Street.

Visit these helpful websites: mta.info and hopstop.com

By automobile:

When using a GPS device, please enter Vaughn's address as:

8601 23rd Avenue
East Elmhurst, NY 11369

From Brooklyn:

Take the Brooklyn-Queens Expressway to LaGuardia Airport Exit 39. Take Astoria Boulevard East to 85th Street, then turn left one block and right onto 23rd Avenue. Proceed to 90th Street, and make a left turn into the College.

From Long Island:

Via Grand Central Parkway westbound: Take LaGuardia Airport Exit 7—94th Street. Follow the long exit ramp, and make a left turn onto 94th Street. Proceed to top of the hill, which is 23rd Avenue. Make a right on 23rd Avenue to the College at 90th Street.

From Manhattan:

Via Grand Central Parkway eastbound: Take LaGuardia Airport Exit 6—94th Street. Stay in the right lane, and make a right turn onto 94th Street. Proceed to the top of the hill, which is 23rd Avenue. Make a right on 23rd Avenue to the College at 90th Street.

From New Jersey and Points South:

Head northeast on I-95 north (partial toll road) entering New York. Take Exit 1C-3 to merge onto I-87 South/Major Deegan Expressway toward Queens. Take the exit onto I-278 toward Queens/Triborough Bridge/Manhattan (partial toll road). Continue east on Grand Central Parkway (signs for Grand Central Parkway East/LaGuardia Airport). Take Exit 6 toward 94th Street. Merge onto Ditmars Boulevard. Turn right at 94th Street. Turn right at 23rd Avenue to the College at 90th Street.

From Upstate New York and Points North:

Head south on I-87/New York State Thruway south (partial toll road). Take Exit 13S for Palisades Parkway south toward New Jersey. Merge onto Palisades Interstate Parkway south entering New Jersey. Take the exit toward the George Washington Bridge (partial toll road). Merge onto I-95 North/US-1 North entering New York. Take Exit 1C-3 to merge onto I-87 S/Major Deegan Expressway toward Queens. Take the exit onto I-278 toward Queens/Triborough Bridge/Manhattan (partial toll road). Continue east on Grand Central Parkway (signs for Grand Central Parkway East/LaGuardia Airport). Take Exit 6 toward 94th Street. Merge onto Ditmars Boulevard. Turn right at 94th Street. Turn right at 23rd Avenue to the College at 90th Street.