

Fanshawe College

FIRST: Fanshawe Innovation, Research, Scholarship, Teaching

Documentation (Approvals etc...)

Architectural Technology

2021

ATY1 Curriculum Modification for 2022-23



Fanshawe College

Follow this and additional works at: https://first.fanshawec.ca/cae_buildingtech_architecturaltech_documentation

CURRICULUM MODIFICATION REQUEST FORM

COURSE OR PROGRAM CURRICULUM "RATIONALE FOR CHANGE"

Program Requiring Changes

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Program Title: Architectural Technology | | |
| Program Number: ATY1 | Date Submitted: 12/1/2021 | |
| Dean responsible for program: Steve Patterson | Associate Dean: Steve Crema | |
| Credential Provided: <input type="checkbox"/> Declaration of Academic Achievement <input type="checkbox"/> Local Certificate <input type="checkbox"/> Ontario College Certificate <input type="checkbox"/> Diploma <input checked="" type="checkbox"/> Advanced Diploma <input type="checkbox"/> Grad Certificate <input type="checkbox"/> Degree <input type="checkbox"/> Apprenticeship | | |
| Program Intakes: <input checked="" type="checkbox"/> F <input checked="" type="checkbox"/> W <input type="checkbox"/> S Other: | Catalogue Year(s) Impacted: 2022-23 | |
| Residency Requirement: <input checked="" type="checkbox"/> Met or <input type="checkbox"/> Not Met | Date of Last Program Review: 8/31/2021 | |
| <i>I have read the reasons for the change and...</i> | | <i>Signature and date</i> |
| Associate Dean of School: | <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve | <i>Steve Crema</i> |
| Dean of Faculty (Lead program): | <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve | November 30, 2021  |
| Dean of Faculty (Affiliate program-impacted by change): | <input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve | |
| Senior Vice President Academic (required for major changes and late DAs): | <input type="checkbox"/> Approve <input type="checkbox"/> Do Not Approve | |
| Director, Centre for Academic Excellence: | <input checked="" type="checkbox"/> Supports <input type="checkbox"/> Does Not Support |  December 2, 2021 |
| Office of the Registrar: | <input type="checkbox"/> Supports <input type="checkbox"/> Does Not Support | |

Notes:

Please answer each of the questions below, if applicable. Missing or incomplete information may delay review of the proposed changes.

1.0 Describe proposed change(s). Complete Appendix A (if necessary), Appendix B and amend SDAR (Refer to Appendix C).

2.0

Multiple changes across the program to address changing needs in industry and feedback from Recent PAC mtgs and the 5yr Program Review that ended in August 2021.

- reduce overall program hours by 75hrs
- better align software/computer course curriculum
- increase hours in use of modern Architectural technology
- reduce heavy hours in Structural content
- increase hours and course content in Mechanical systems

Reason/Rationale for Changes

2.1 The reason for the change is based on:

- A recent program review
- Program Advisory Committee feedback
- Student feedback
- KPI results
- Accreditation or other regulatory requirements
- Shared curriculum
- Trends in the field/industry
- Other (please describe):

2.2 Does the change support the College's Strategic Framework (mission, vision, values)?

- Yes
- No (If no, please explain)

2.3 What strategic goal(s) does the proposed change support?

- Goal 1 – Enhance innovative practices for exceptional student learning
- Goal 2 – Manage enrolment growth
- Goal 3 – Optimize use of resources
- Goal 4 – Build sustainable sources of alternative revenue

3.0 Students

3.1 Will the change affect the cost of the program for students?

- Yes
- No

3.2 If yes, there will be an additional cost for:

- Materials (Include details):
- Equipment (Include details):
- Other (Please describe):

4.0 Program Learning Outcomes

4.1 Will the proposed change meet the Program Vocational Learning Outcomes? (Complete Appendix B and mark the changes in the mapping [e.g. red font])

- Yes
- No

4.2 Are there any implications related to progression because of pre-requisite courses (and/or co-requisite courses)?

- No
- Yes (If yes, please explain)

5.0 Relationships with Other Programs

5.1 Are any of the courses impacted by the change provided by another School (e.g., SLLS, LKSB) and/or delivered at another campus?

- No
- Yes

5.2 What Schools/Campuses will be impacted by the proposed change?

- Lawrence Kinlin School of Business
- School of Information Technology
- School of Contemporary Media
- School of Design
- School Digital and Performing Arts
- School of Tourism, Hospitality and Culinary Arts
- School of Community Studies
- School of Health Sciences
- School of Nursing
- School of Public Safety
- Donald J. Smith School of Building Technology
- Norton Wolf School of Aviation Technology
- School of Applied Sciences and Technology
- School of Transportation Technology and Apprenticeship

- School of Language and Liberal Studies
- English Language Institute
- London South Campus
- Simcoe/Norfolk Regional Campus
- St Thomas/Elgin Regional Campus
- Woodstock/Oxford Regional Campus
- Huron/Bruce Regional Sites

5.3 Will the change affect pathway agreements (e.g., bridging, articulations, laddering, advanced standing) with other Fanshawe program(s) and/or other institution(s)?
(Refer to the pathway agreements listed here: <http://transferagreements.fanshawec.ca/>)

- No
- Yes (If yes, indicate when you will notify the other Fanshawe program(s) and/or other institution(s) and the Pathways Coordinator in the Centre for Academic Excellence of the change)

5.4 If this program is a Co-Operative Education program, will the proposed change impact Co-op?

- No
- Yes (If yes, consult with the Co-op office prior to submission)

6.0 Resource Implications of Proposed Changes

6.1 Will the proposed change have staffing implications?

- No
- Yes (If yes, please explain)

6.2 Will the proposed change impact any of the Enabling areas?

- No
- Yes (If yes, please explain)

6.3 Will the proposed change affect space and/or technology requirements?

- No
- Yes (If yes, please explain)

7.0 General College Requirements

7.1 Are changes consistent with Colleges policies?

- Yes
- No (If no, please explain)

7.2 Will the program meet the General Education requirements (Policy A126) as listed below?

- No
 Yes

| | | |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------|
| Local Certificate, Ontario College Certificate and Graduate Certificate - none required) | Diploma - 3 required (minimum of 1 must be an elective) | Advanced Diploma - 4 required (minimum of 2 must be electives) |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------|

7.3 Will the program have 25% distinct curriculum to meet the Residency Requirement of 25% credit units? Consider all pathway agreements (e.g., bridging, internal articulations, laddering, advanced standing) with other Fanshawe programs and/or other institutions.

- No
 Yes

Note: In accordance with POLICY NUMBER: A122 Graduation from Approved College Programs

...to be eligible for any College Credential a student must be enrolled and complete at least 25% of that program's credit units at Fanshawe College, unless stipulated differently by other approving bodies such as the Postsecondary Education Quality Assessment Board (PEQAB).

7.4 Indicate:

- i) Total program hours before proposed change: 2196
- ii) Total program hours after proposed change: 2121
- iii) Level(s) in which the proposed change(s) occurs: 1,2,3,4,5,6

7.4.1 Are the total program hours consistent with the requirements as listed below?

- Yes
 No (If no, please explain)

| | |
|-----------------------------------------|------------------------------------------------|
| Local Certificate - 300 hours | Ontario College Certificate - 600 hours |
| Diploma - 1200 to 1400 hours | Advanced Diploma - 1800 to 2100 hours |
| Graduate Certificate - 600 hours | DOAA – 120 to 200 hours |

Degree Audit Report

Catalog: 2022/2023

Program: ATY1

Name: Architectural Technology

Department: BLD - Building Technology

Academic Level: PS

CCD: 9 - 6AcadSem/1800-2100hrs

Credential: Ontario College Advanced Dipl

Grade Scheme: LG2

Major: ATY1 - Arc

Div: BLD - Building Technology Division

Co-Op Indicator: Mandatory Co-op

Academic Program Requirement

Total Credits: 146 **idency Reqmt:** 37
GPA Requirement: 2 cy **Reqmt GPA:** 2
Minimum Grade: D

Academic Requirement: ATY1.22 Architectural Technology

Major: ATY1
Grade Scheme: LG2
Minimum GPA: 2
Minimum Grade:

Subrequirement: Level 1

Take all of the following Mandatory Courses:

| | | Total Hours | Total Credits | GE |
|----------------------|------------------------------------|--------------------|----------------------|-----------|
| ARCH-1001 | Architectural Design 1 | 45 | 3 | |
| CADD-1041 | Architectural AutoCAD 1 | 60 | 4 | |
| BIMM-1001 | Architectural Software 1 | 45 | 3 | |
| WRIT-1039 | Reason & Writing 1-Technology | 45 | 3 | |
| DRAF-1059 | Architectural Fundamentals 1 | 45 | 3 | |
| MATS-1002 | Materials & Methods 1 | 45 | 3 | |
| MATH-1061 | Statics | 45 | 3 | |
| MATH-1222 | Statics | 30 | 2 | |
| ARCH-1006 | History of Architecture | 45 | 3 | ** |
| MATH-1036 | Mathematics in Technology 1 | 45 | 3 | |

Subrequirement: Level 2

Take all of the following Mandatory Courses:

| | | Total Hours | Total Credits | GE |
|----------------------|-----------------------------------------|--------------------|----------------------|-----------|
| CADD-1042 | Architectural AutoCAD 2 | 60 | 4 | |
| BIMM-3001 | Architectural Software 2 | 45 | 3 | |
| ARCH-1030 | Architectural Design & Project 2 | 135 | 9 | |
| ARCH-1004 | Ontario Building Code 1 | 30 | 2 | |
| ARCH-1034 | Ontario Building Code 1 | 45 | 3 | |
| MATS-1007 | Materials & Methods 2 | 45 | 3 | |
| MECH-1009 | Mechanics of Materials | 45 | 3 | |
| MECH-3046 | Mechanics of Materials | 30 | 2 | |
| SFTY-1029 | Health & Safety | 45 | 3 | ** |
| ENVR-1017 | Sustainability in the Built Environment | 45 | 3 | |

Subrequirement: Level 3

Take all of the following Mandatory Courses:

| | | Total Hours | Total Credits | GE |
|----------------------|--------------------------------------|--------------------|----------------------|-----------|
| ARCH-3015 | Architectural Design & Project 3 | 135 | 9 | |
| ARCH-1021 | Ontario Building Code 2 | 30 | 2 | |
| ENGR-1004 | Environmental Engineering-Electrical | 30 | 2 | |

| | | | |
|-----------|--------------------------------------|----|---|
| ENGR-3021 | Building Systems - Electrical | 30 | 2 |
| MATS-3009 | Materials & Methods 3 | 45 | 3 |
| CONS-1012 | Quantities | 45 | 3 |
| ENGR-3007 | Structural Engineering 1 | 45 | 3 |
| ENGR-1031 | Structural Engineering 1 | 30 | 2 |
| CADD-1080 | Building Information Modelling Intro | 45 | 3 |
| ENGR-1032 | Building Systems - Mechanical 1 | 45 | 3 |

Subrequirement: Level 4

Gen Ed - Take a 3 credit General Education elective course Take all of the following Mandatory Courses:

| | | Total Hours | Total Credits | GE |
|-----------|---------------------------------------|-------------|---------------|----|
| ARCH-3016 | Architectural Design & Project 4 | 135 | | 9 |
| CADD-3035 | Building Information Modelling Inter | 45 | | 3 |
| BIMM-1002 | Virtual Design & Construction (VDC) 1 | 45 | | 3 |
| ENGR-1006 | Environmental Engineering HVAC | 60 | | 4 |
| ENGR-3022 | Building Systems - Mechanical 2 | 45 | | 3 |
| MATS-3010 | Materials & Methods 4 | 45 | | 3 |
| ENGR-3009 | Structural Engineering 2 | 30 | | 2 |
| URBN-1025 | Urban Environmental Studies | 30 | | 2 |

Subrequirement: Level 5

Gen Ed - Take a 3 credit General Education elective course Take all of the following Mandatory Courses:

| | | Total Hours | Total Credits | GE |
|-----------|---------------------------------------|-------------|---------------|----|
| ARCH-5001 | Building Science 1 | 45 | | 3 |
| ARCH-5009 | Architectural Design & Project 5 | 135 | | 9 |
| BIMM-3002 | Virtual Design & Construction (VDC) 2 | 45 | | 3 |
| ARCH-1033 | Architectural Practice & Processes 1 | 45 | | 3 |
| ARCH-3007 | Specifications 1 | 30 | | 2 |
| ENGR-5007 | Structural Engineering 3 | 45 | | 3 |
| ENGR-5017 | Structural Engineering 3 | 30 | | 2 |

Subrequirement: Level 6

Take all of the following Mandatory Courses:

| | | Total Hours | Total Credits | GE |
|-----------|---------------------------------------|-------------|---------------|----|
| ARCH-5010 | Architectural Design & Project 6 | 135 | | 9 |
| ARCH-5005 | Building Science 2 | 45 | | 3 |
| ARCH-3017 | Architectural Practice & Processes 2 | 45 | | 3 |
| ARCH-5007 | Specifications 2 | 45 | | 3 |
| ARCH-1035 | Specifications | 45 | | 3 |
| ENGR-5009 | Structural Engineering 4 | 30 | | 2 |
| COMM-5005 | Technical Report Prod for Bldg Tech'y | 30 | | 2 |

Subrequirement: Co-op Course

Take the following Mandatory Course - Normally Taken in Level 1 or 2

| | | Total Hours | Total Credits | GE |
|-----------|----------------------------------------|-------------|---------------|----|
| COOP-1020 | Co-operative Education Employment Prep | 6 | | 1 |

Subrequirement: Gen Ed - Electives

Take 6 General Education Credits - Normally taken in Levels 4 and 5

Subrequirement: Program Residency

Students Must Complete a Minimum of 37 credits in this program at Fanshawe College to meet the Program Residency requirement and Graduate from this program

Approved By Chair/Manager:

Department and Date:

Approved by Dean:

Date:

General Education Approved By(as appropriate):

Date:

APPENDIX A: PROPOSED CURRICULUM MODIFICATION

| Course Code | Existing DA Courses | Total Hours | Total Credits | Describe proposed changes | Course Code | Proposed DA Courses | Total Hours | Total Credits |
|----------------|--------------------------|-------------|---------------|-----------------------------------------------|--------------|-----------------------------------|-------------|---------------|
| Level 1 | | | | | | | | |
| CADD-1041 | Arch AutoCAD 1 | 60 | 4 | Reduce 1hr, new content | BIMM-1001 | Architectural Software 1 | 45 | 3 |
| MATH-1061 | Statics | 45 | 3 | Reduce 1hr | MATH-1222 | Statics | 30 | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TOTAL | | 105 | 7 | | TOTAL | | 75 | 3 |
| Level 2 | | | | | | | | |
| CADD-1042 | Arch AutoCAD 2 | 60 | 4 | Reduce 1hr, New content | BIMM-3001 | Architectural Software 2 | 45 | 3 |
| ARCH-1004 | Ontario Building Code 1 | 30 | 2 | Add hours, combine content from second course | ARCH-1034 | Ontario Building Code | 45 | 3 |
| MECH-1009 | Mechanics of Materials | 45 | 3 | Reduce 1hr | MECH-3046 | Mechanics of Materials | 30 | 2 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TOTAL | | 135 | 9 | | TOTAL | | 120 | 8 |
| Level 3 | | | | | | | | |
| ARCH-1021 | Ontario Building Code 2 | 30 | 2 | Remove (combined into one course in Lv 2) | | | | |
| ENGR-1004 | Enviro Engin-Electrical | | | Rename | ENGR-3021 | Building Systems-Electrical | 30 | 2 |
| ENGR-3007 | Structural Engineering 1 | 45 | 3 | Reduce 1hr | ENGR-1031 | Structural Engineering 1 | 30 | 2 |
| CADD-1080 | BIM-Intro | 45 | 3 | Remove | | | | |
| | | | | New course | ENGR-1032 | Building Systems-Mechanical 1 | 30 | 2 |
| | | | | | | | | |
| TOTAL | | 120 | 8 | | TOTAL | | 90 | 6 |
| Level 4 | | | | | | | | |
| CADD-3035 | BIM- Intermediate | 45 | 3 | New Content | BIMM-1002 | Virtual Design and Construction 1 | 45 | 3 |
| ENGR-1006 | Enviro Engin- HVAC | 60 | 4 | Reduce 1hr, new content | ENGR-3022 | Building Systems-Mechanical 2 | 45 | 3 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TOTAL | | 105 | 7 | | TOTAL | | 90 | 6 |

APPENDIX A: PROPOSED CURRICULUM MODIFICATION

| Level 5 | | | | | | | | |
|--------------|--------------------------|----|---|-------------------------------|-----------|-----------------------------------|--------------|---|
| ARCH-3007 | Specifications 1 | 30 | 2 | Combine content, move to Lv 6 | | | | |
| ENGR-5007 | Structural Engineering 3 | 45 | 3 | Reduce 1hr | ENGR-5017 | Structural Engineering 3 | 30 | 2 |
| | | | | New course | BIMM-3002 | Virtual Design and Construction 2 | 30 | 2 |
| TOTAL | | 75 | 5 | | | | TOTAL | |
| | | | | | | | 30 | 2 |
| Level 6 | | | | | | | | |
| ARCH-5007 | Specifications 2 | 45 | 3 | Combine with Spec 1 from Lv 5 | ARCH-1035 | Specifications 1 | 45 | 3 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TOTAL | | 0 | 0 | | | | TOTAL | |
| | | | | | | | 0 | 0 |

PROGRAM TOTAL 420 28

PROGRAM TOTAL 315 19

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|------------------------------------------|--|--|--|--|----|--|--|--|--|--|--|--|--|--|----|--|--|
| CADD-1041- BIMM-1001 | Architectural AutoCAD 1- Arch Software 1 | | | | | | | | | | | | | | | IB | | |
| DRAF-1059 | Architectural Fundamentals 1 | | | | | | | | | | | | | | | | | |
| MATH-1036 | Mathematics in Technology 1 | | | | | | | | | | | | | | | | | |
| MATH-1061- MATH-1222 | Statics | | | | | IB | | | | | | | | | | | | |
| MATS-1002 | Materials & Methods 1 | | | | | | | | | | | | | | | | | |
| WRIT-1039 | Reason & Writing 1-Technology | | | | | | | | | | | | | | | | | |

Level 2

| Course Number | Course Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----------------------------|--------------------------|---|---|---|---|---|---|----|---|---|----|----|----|----|----|----|
| ARCH-1004- ARCH-1034 | Ontario Building Code 1 | | | | | | | | | | | | | | | |
| ARCH-1030 | Arch. Design & Project 2 | | | | | | | IB | | | | | | | | |

| ENGR-3007- ENGR-1031 | Structural Engineering 1 | I | IB | | | I | I | I | | I | | | | | | |
|----------------------|------------------------------------------------------------------|-----|-----|---|---|-----|-----|----|----|---|----|----|----|-----|----|----|
| MATS-3009 | Materials & Methods 3 | B | B | I | | IB | I | IB | | | | IB | IB | | | |
| ENGR-1032 | Building Systems-Mechanical 1 | IBC | IBC | | | IBC | IB | BC | | | | | | | | |
| Level 4 | | | | | | | | | | | | | | | | |
| Course Number | Course Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| ARCH-3016 | Arch. Design & Project 4 | B | C | | | C | B | C | B | B | | | B | | | B |
| CADD-3035- BIMM-1002 | Building Info Modelling-Inter- Virtual Design and Construction 1 | B | B | | | C | IB | B | IB | | | | | IBC | B | B |
| ENGR-1006- ENGR-3022 | Environ Engineering-HVAC- Building Systems Mechanical 2 | IBC | IBC | | | IBC | IBC | | | | | | | | | |
| ENGR-3009 | Structural Engineering 2 | BC | B | I | | B | I | BC | | B | | | | | | |

| | | | | | | | | | | | | | | | | |
|-----------|-----------------------------|-----|----|---|--|----|----|----|-----|--|--|----|----|----|--|--|
| MATS-3010 | Materials & Methods 4 | B | B | I | | IB | IB | IB | | | | IC | IB | IB | | |
| URBN-1025 | Urban Environmental Studies | IBC | IB | | | | | IB | IBC | | | | B | IB | | |

Level 5

| Course Number | Course Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---------------|-----------------------------------|---|----|----|---|----|---|----|----|---|----|----|----|-----|----|----|
| ARCH-1033 | Arch Practice & Processes 1 | B | B | | C | | | IB | | I | | | | I | C | IB |
| ARCH-3007 | Specifications 1 | † | † | IB | † | | † | | | | | | † | † | | |
| ARCH-5001 | Building Science 1 | | I | | | IB | | IB | IB | | | | IB | | | |
| ARCH-5009 | Arch. Design & Project 5 | B | BC | | | BC | C | B | BC | | B | | B | B | | |
| BIMM- 3002 | Virtual Design and Construction 2 | C | C | | | C | B | B | B | | | | | IBC | C | C |

| | | | | | | | | | | | | | | | | |
|----------------------|--------------------------|---|----|--|--|---|---|---|--|---|--|--|--|--|--|--|
| ENGR-5007- ENGR-5017 | Structural Engineering 3 | B | IB | | | B | B | B | | B | | | | | | |
|----------------------|--------------------------|---|----|--|--|---|---|---|--|---|--|--|--|--|--|--|

Level 6

| Course Number | Course Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|----------------------|----------------------------------|-----|---|----|---|----|----|----|---|----|----|----|----|----|----|----|
| ARCH-3017 | Arch Practice & Processes 2 | C | C | | | | | | | C | | | | C | C | C |
| ARCH-5005 | Building Science 2 | | I | | | BC | | BC | I | | | | BC | I | | |
| ARCH-5007- ARCH-1035 | Specifications 2- Specifications | B | B | BC | | | B | | | | | | BC | BC | | |
| ARCH-5010 | Arch. Design & Project 6 | BC | C | | | C | C | C | C | B | | | B | B | C | BC |
| COMM-5005 | Tech Report Production | IBC | | | | | | | | | | | | | | |
| ENGR-5009 | Structural Engineering 4 | BC | C | | | BC | BC | C | | BC | | | | | | |

Level 7

| Course Number | Course Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---------------|--------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| COOP-1020 | Co-op Educ. Employment Prep | | | | | | | | | | | | | | | |

Vocational Learning Outcomes

| | |
|----|---------------------------------------------------------------------------------------------------------------------------------------|
| 1 | communicate with clients, contractors, other building professionals, and approval authorities. |
| 2 | prepare, read, interpret, and revise drawings, and other graphical representations used in building projects. |
| 3 | obtain, analyze, prepare, and revise specifications* and other project documents used in design* and construction. |
| 4 | prepare estimates of time, costs, and quantity, and participate in the tendering process. |
| 5 | solve technical problems related to building projects through the application of principles of building science* and mathematics. |
| 6 | collaborate with and coordinate information from structural, mechanical, and electrical building systems professionals. |
| 7 | contribute to the design* of architectural projects. |
| 8 | contribute to the analysis, planning, and preparation of site planning documents. |
| 9 | comply with the legal and ethical requirements of an architectural technologist in the practice of building design* and construction. |
| 10 | assess buildings and their interiors, and make recommendations for their repurposing and renovation. |
| 11 | ensure personal safety and contribute to the safety of others in the workplace |
| 12 | participate in sustainable design* and building practices. |
| 13 | use and evaluate current and emerging technology to support building projects. |
| 14 | assist in the planning, scheduling, and monitoring of building projects. |
| 15 | apply business principles to design* and building practices. |

Legend

| | |
|---|--------------|
| I | Introductory |
| B | Building |
| C | Culminating |

COMMS - Essential Employability Skills by Program, Level and Course

Program Name: Architectural
Technology

Program Code: ATY1 (ATY1-BLD-
20212)

Academic Year: 2021-2022

Date Generated: 11/30/2021
11:55:07 AM

| Level 1 | | | | | | | | | | | | |
|----------------------|------------------------------------------|---|---|---|---|---|---|---|---|---|----|----|
| Course Number | Course Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| ARCH-1001 | Architectural Design 1 | X | X | X | X | X | X | X | | | X | X |
| ARCH-1006 | History of Architecture | X | | | | | | X | X | X | X | |
| CADD-1041- BIMM-1001 | Architectural AutoCAD 1- Arch Software 1 | X | X | X | X | X | X | X | | | X | X |
| DRAF-1059 | Architectural Fundamentals 1 | X | X | X | X | X | | | | | X | X |
| MATH-1036 | Mathematics in Technology 1 | | | X | X | X | | X | | | X | |
| MATH-1061- MATH-1222 | Statics | | | X | X | X | | | | | | |
| MATS-1002 | Materials & Methods 1 | X | X | | | | X | X | | | X | X |
| WRIT-1039 | Reason & Writing 1- Technology | X | X | | X | X | | | X | | | X |

| Level 2 | | | | | | | | | | | | |
|----------------------|-------------------------------------------------------------|---|---|---|---|---|---|---|---|---|----|----|
| Course Number | Course Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| ARCH-1004- ARCH-1034 | Ontario Building Code 1 | X | X | X | X | X | X | X | | | X | X |
| ARCH-1030 | Arch. Design & Project 2 | X | X | X | X | X | X | X | | | X | X |
| CADD-1042- BIMM-3001 | Architectural AutoCAD 2- Arch Software 2 | X | X | X | | | X | X | | | X | X |
| ENVR-1017 | Sustainability in Building | X | X | | X | X | X | X | X | X | X | X |
| MATS-1007 | Materials & Methods 2 | X | X | | X | X | X | X | X | X | X | X |
| MECH-1009- MECH-3046 | Mechanics of Materials | | | X | X | X | | | | | | |
| SFTY-1029 | Health & Safety | X | X | | | | X | X | | X | X | |
| Level 3 | | | | | | | | | | | | |
| Course Number | Course Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| ARCH-1021 | Ontario Building Code 2 | X | X | X | X | X | X | X | X | X | X | X |
| ARCH-3015 | Arch. Design & Project 3 | X | X | X | X | X | X | X | | | X | X |
| CADD-1080 | Building Info Modelling-Intro | X | X | X | X | X | X | X | | | X | X |
| CONS-1012 | Quantities | | | X | X | X | X | X | | | | |
| ENGR-1004- ENGR-3021 | Environ Engineering-Electrical- Building Systems-Electrical | | | X | X | | | | | | X | |
| ENGR-3007- ENGR-1031 | Structural Engineering 1 | | | X | | X | | | | | X | X |
| MATS-3009 | Materials & Methods 3 | X | X | | X | X | X | X | X | X | X | X |
| ENGR-1032 | Building Systems-Mechanical 1 | | | X | X | | | | | | X | |
| Level 4 | | | | | | | | | | | | |

| | | | | | | | | | | | | |
|----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| ARCH-5007- ARCH-1035 | Specifications 2- Specifications | X | X | | X | X | X | X | | | X | X |
| ARCH-5010 | Arch. Design & Project 6 | X | X | | X | X | X | X | | | X | X |
| COMM-5005 | Tech Report Production | X | X | | X | X | X | X | X | X | X | X |
| ENGR-5009 | Structural Engineering 4 | | | X | X | X | | X | | | X | X |
| Level 7 | | | | | | | | | | | | |
| Course Number | Course Name | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| COOP-1020 | Co-op Educ. Employment Prep | X | X | | | | X | X | X | | X | X |

Essential Employability Skills

| | |
|----|------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Communicate clearly, concisely and correctly in the written, spoken and visual form that fulfills the purpose and meets the needs of the |
| 2 | Respond to written, spoken or visual messages in a manner that ensures effective communication. |
| 3 | Execute mathematical operations accurately. |
| 4 | Apply a systematic approach to solve problems. |
| 5 | Use a variety of thinking skills to anticipate and solve problems. |
| 6 | Locate, select, organize and document information using appropriate technology and information systems. |
| 7 | Analyze, evaluate and apply relevant information from a variety of sources. |
| 8 | Show respect for diverse opinions, values, belief systems and contributions of others. |
| 9 | Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals. |
| 10 | Manage the use of time and other resources to complete projects. |
| 11 | Take responsibility for one's own actions, decisions and consequences. |

Legend

| | |
|---|--------------|
| I | Introductory |
| B | Building |
| C | Culminating |