

Engineering Science

at Benedictine University

Why study engineering at Benedictine?

Benedictine University and the Illinois Institute of Technology (IIT) have joined together to offer students a chance to take advantage of the strengths of both schools while earning a Bachelor of Science or Bachelor of Arts in Engineering Science from Benedictine and a Bachelor of Science in Engineering from IIT.

How does the program work?

You must have a minimum 3.0 GPA to be accepted into the Benedictine/IIT engineering program. A minimum of 45 semester hours must be completed at IIT. Once you are accepted into the program, you will be enrolled at both schools simultaneously and will be able to enjoy the benefits of student activities and the use of facilities at both institutions.

Your initial classes are taken exclusively at Benedictine where you will complete a sequence of courses comprising the engineering core plus elective courses in social science and humanities. By your fifth semester, you will take courses at both institutions. Most classes during the final four semesters of the program are conducted at IIT's downtown campus.

Your academic work will include courses which are essentially common to all branches of engineering and include calculus, college physics, chemistry, statics, dynamic, computer programming and engineering graphics. You will take liberal arts courses in written and oral communications, technical writing, social science and electives of your choice.

Fields of study

IIT will prepare you for your specialty in the following fields of study:

- Aerospace Engineering (AE)
- Civil Engineering (CE)
- Mechanical Engineering (ME)
- Computer Engineering (CPE)
- Electrical Engineering (EE)
- Environmental Engineering (ENVE)
- Chemical Engineering (CHE)
- Architectural Engineering (ARCE)

The Benedictine/IIT connection provides students with a unique opportunity in that they receive an engineering degree while attending a liberal arts university. The liberally-educated graduate is better prepared to compete in an environment in which communication skills are rapidly becoming as important as technical ability. This program develops engineers who can communicate technical ideas to society.

Recommended Program

BU+IIT (Five-year Aerospace Engineering Program) B.A. in Engineering Science at Benedictine/B.S. in Aerospace Engineering at IIT

First Semester

MATH C210 and C207	5 (BU) (MATH 151)
WRIT S101	3 (BU)
ENGR 120	2 (BU) (EG 105)
CHEM C113 and C114	4 (BU) (CHEM 124)
Religious Studies elective	3 (BU)
	17

Third Semester

PHYS C211 and C205	5 (BU) (Note 1)
MATH C212	4 (BU) (MATH 251)
CMSC C180/181	4 (BU) (MMAE 100)
SPCH S110	3 (BU)
	16

Fifth Semester

MS 201	3 (IIT)
PHYS 213	3 (BU) (Note 1)
ENGR 220	3 (BU) (MMAE 201)
Philosophy elective	3 (BU) (Note 3)
HUMN 230	3 (BU) (Note 3)
	15

Seventh Semester

PHYS 300	3 (IIT)
MMAE 310	4 (IIT)
MMAE 320	3 (IIT)
Anthropology/Political Science elective	3 (BU) (Note 2)
HUMN 250	3 (BU) (Note 3)
	16

Ninth Semester

MMAE 322	4 (IIT)
MMAE 441	3 (IIT)
MMAE 452	3 (IIT)
I PRO II	3 (IIT)
Technology elective	3 (BU) (Note 4)
	16

Second Semester

MATH C211	4 (BU) (MATH 152)
WRIT S102	3 (BU)
Life Sciences Elective	3 (BU)
CHEM C123 and C124	4 (BU)
Psychology/Sociology elective	3 (BU) (Note 2)
	17

Fourth Semester

PHYS C212 and C206	5 (BU) (Note 1)
MATH 260	4 (BU) (MATH 252)
CMSC C200	4 (BU) (CS 105)
HUMN 220	3 (BU) (Note 3)
	16

Sixth Semester

MMAE 202	3 (IIT)
MMAE 350	3 (IIT)
ENGR 264	3 (BU)
FNAR/MUSI	3 (BU) (Note 3)
HUMN 240	3 (BU) (Note 3)
Business/Economics elective	3 (BU) (Note 2)
	18

Eighth Semester

MMAE 271	3 (IIT)
MMAE 304	3 (IIT)
MMAE 311	3 (IIT)
MMAE 312	3 (IIT)
I PRO I	3 (IIT)
	15

Tenth Semester

MMAE 430	4 (IIT)
MMAE 436	3 (IIT)
MMAE 437	3 (IIT)
Technology elective	3 (BU) (Note 4)
Literature elective	3 (BU) (Note 3)
	16

Total **162 minimum**

Note 1. PHYS C211, C205, C212, C206, 213 (BU) = PHYS 123, 221, 224 (IIT).

Note 2. Choose upper and lower level Social Science electives from approved electives.

Note 3. Choose upper and lower level Humanities electives from approved electives.

Note 4. Choose a 300-level Science or Math course at Benedictine.

Recommended Program

BU+IIT (Five-year Mechanical Engineering Program) B.A. in Engineering Science at Benedictine/B.S. in Mechanical Engineering at IIT

First Semester

MATH C210 and C207	5 (BU)(MATH 151)
ENGR 120	2 (BU) (EG 105)
CHEM C113 and C114	4 (BU) (CHEM 124)
Religious Studies elective	3 (BU)
WRIT S101	3 (BU)
	17

Third Semester

PHYS C211 and C205	5 (BU) (Note 1)
MATH C212	4 (BU) (MATH 251)
CMSC C180	4 (BU) (MMAE 100)
SPCH S110	3 (BU)
	16

Fifth Semester

MS 201	3 (IIT)
PHYS 213	3 (BU) (Note 1)
ENGR 220	3 (BU) (MMAE 201)
Philosophy elective	3 (BU) (Note 3)
HUMN 230	3 (BU) (Note 3)
	15

Seventh Semester

PHYS 300	3 (IIT)
MMAE 310	4 (IIT)
MMAE 320	3 (IIT)
Literature elective	3 (BU) (Note 3)
HUMN 250	3 (BU) (Note 3)
	16

Ninth Semester

MMAE 430	4 (IIT)
MMAE 433	3 (IIT)
MMAE 485	3 (IIT)
Technology elective	3 (BU) (Note 4)
Anthropology/Political Science elective	3 (BU) (Note 2)
	16

Note 1. PHYS C211, C205, C212, C206, 213 (BU) = PHYS 123, 221, 224 (IIT).

Note 2. Choose upper and lower level Social Science electives from approved courses at Benedictine.

Note 3. Choose upper and lower level Humanities electives from approved courses at Benedictine.

Note 4. Choose a 300-level Science or Math course at Benedictine.

Second Semester

MATH C211	4 (BU) (MATH 152)
WRIT S102	3 (BU)
Life Sciences Elective	3 (BU)
CHEM C123 and C124	4 (BU)
Psychology/Sociology elective	3 (BU) (Note 2)
	17

Fourth Semester

PHYS C212 and C206	5 (BU) (Note 1)
MATH 260	4 (BU) (MATH 252)
CMSC C200	4 (BU) (CS 105)
HUMN 220	3 (BU) (Note 3)
	16

Sixth Semester

MMAE 202	3 (IIT)
MMAE 350	3 (IIT)
ENGR 264	3 (BU)
HUMN 240	3 (BU) (Note 3)
Business/Economics elective	3 (BU) (Note 2)
	15

Eighth Semester

MMAE 271	3 (IIT)
MMAE 306	3 (IIT)
MMAE 321	3 (IIT)
MMAE 322	4 (IIT)
I PRO I	3 (IIT)
	16

Tenth Semester

MMAE 432	3 (IIT)
MMAE 443	3 (IIT)
I PRO II	3 (IIT)
Technology elective	3 (BU) (Note 4)
FNAR/MUSI	3 (BU) (Note 3)
	15

TOTAL HOURS

159 minimum

Recommended Program

BU+IIT (Five-year Electrical Engineering Program) B.A. in Engineering Science at Benedictine/B.S. in Electrical Engineering at IIT

First Semester

MATH C210 and C207	5 (BU) (MATH 151)
WRIT S101	3 (BU)
CHEM C113 and C114	4 (BU) (CHEM 122)
ENGR 120	2 (BU)
Religious Studies elective	3 (BU)
	17

Third Semester

PHYS C211 and C205	5 (BU) (Note 1)
MATH C212	4 (BU) (MATH 251)
HUMN 220	3 (BU) (Note 3)
CMSC C180/181	4 (BU) (ECE 100)
	16

Fifth Semester (Note 5)

ECE 211	3 (IIT)
ECE 212	1 (IIT)
ECE 218	3 (IIT)
CMSC 220	4 (BU) (ECE 242)
ENGR 220	3 (BU)
PHYS 213	3 (BU) (Note 1)
	17

Seventh Semester (Note 5)

MATH 371 (BU)	3 (BU) (MATH 474) (Note 6)
ECE 307	4 (IIT)
ECE 311	4 (IIT)
HUMN 230	3 (BU) (Note 3)
I PRO I	3 (IIT)
	17

Ninth Semester (Note 5)

Prof ECE elective	4 (IIT) (Note 4)
Prof ECE elective	3 (IIT) (Note 4)
I PRO II	3 (IIT)
Psychology/Sociology elective	3 (BU) (Note 2)
HUMN 250	3 (BU) (Note 3)
	16

Note 1. PHYS C211, C205, C212, C206, 213 (BU) = PHYS 123, 221, 224 (IIT).

Note 2. Choose upper and lower level Social Science electives from approved courses.

Note 3. Choose upper and lower level Humanities electives from approved courses.

Note 4. Professional ECE electives may be chosen from any of the 400-level ECE courses identified with (P) in the course descriptions. At least two of the electives must contain laboratories. See the current IIT bulletin for more information.

Second Semester

MATH C211	4 (BU) (MATH 152)
WRIT S102	3 (BU)
CHEM C123 and C124	4 (BU) (Science elective)
SPCH S110	3 (BU)
Life Sciences elective	3 (BU)
	17

Fourth Semester

PHYS C212 and C206	5 (BU) (Note 1)
MATH 260	4 (BU) (MATH 252)
Business/Economics elective	3 (BU) (Note 2)
CMSC C200	4 (BU) (CS 115 and 116)
	16

Sixth Semester (Note 5)

MMAE 320	3 (IIT)
ECE 213	3 (IIT)
ECE 214	1 (IIT)
MATH 333	3 (IIT)
ENGR 221	3 (BU)
Philosophy elective	3 (BU) (Note 3)
	16

Eighth Semester (Note 5)

ECE 308	3 (IIT)
ECE 309	3 (IIT)
ECE 312	4 (IIT)
ECE 319	4 (IIT)
HUMN 240	3 (BU) (Note 3)
	17

Tenth Semester (Note 5)

Prof ECE elective	4 (IIT) (Note 4)
Prof ECE elective	3 (IIT) (Note 4)
Literature elective	3 (BU) (Note 3)
Anthropology/Political Science elective	3 (BU) (Note 2)
Fine Arts/Music elective	3 (BU) (Note 3)
	16

TOTAL **165 minimum**

Note 5. Interprofessional Projects may be taken at any time during the third, fourth or fifth years (course scheduling must be adjusted accordingly with adviser approval).

Note 6. 300-level Science or Math elective at Benedictine.

IIT courses may be completed at Main campus, Rice campus or through IITV.

Recommended Program

BU+IIT (Five-year Civil Engineering Program) B.A. in Engineering Science at Benedictine/B.S. in Computer Engineering at IIT

First Semester

MATH C210 and C207	5 (BU) (MATH 151)
WRIT S101	3 (BU)
CHEM C113 and C114	4 (BU) (CHEM 124)
Literature elective	3 (BU)
ENGR 120	2 (BU) (CAE 100)
	17

Third Semester

PHYS C211 and C205	5 (BU) (Note 1)
MATH C212	4 (BU) (MATH 251)
CMSC C180	4 (BU) (CAE 101)
Religious Studies elective	3 (BU) (Note 3)
	16

Fifth Semester

CAE 105	3 (IIT)
CAE 221	3 (IIT)
PHYS 213	3 (BU) (Note 1)
ENGR 220	3 (BU) (MMAE 201)
HUMN 230	3 (BU) (Note 3)
Psychology/Sociology elective	3 (BU) (Note 2)
	18

Seventh Semester

CAE 301	3 (IIT)
CAE 303	3 (IIT)
CAE 304	3 (IIT)
CAE 312	3 (IIT)
CAE 315	3 (IIT)
Technology elective	3 (BU) (Note 4)
	18

Ninth Semester

CAE 419	3 (IIT)
CAE 431	3 (IIT)
CAE 457	3 (IIT)
CAE 470	3 (IIT)
Technology elective	3 (IIT) (Note 4)
HUMN 250	3 (BU) (Note 3)
	18

Second Semester

MATH C211	4 (BU) (MATH 152)
SPCH S110	3 (BU)
WRIT S102	3 (BU)
CHEM C123 and C124	4 (BU)
Life Sciences elective	3 (BU)
	17

Fourth Semester

MATH 260	4 (BU) (MATH 252)
PHYS C212 and C206	5 (BU) (Note 1)
HUMN 220	3 (BU) (Note 3)
CMSC C200	4 (BU) (CS 105)
	16

Sixth Semester

MMAE 202	3 (IIT)
Business/Economics elective	3 (BU) (Note 2)
HUMN 240	3 (BU) (Note 3)
ENGR 264	3 (BU)
Philosophy elective	3 (BU) (Note 3)
	15

Eighth Semester

CAE 302	3 (IIT)
CAE 307	3 (IIT)
CAE 310	3 (IIT)
CAE 323	3 (IIT)
Technology elective (IPRO)	3 (IIT) (Note 4)
	15

Tenth Semester

Technology elective	3 (IIT) (Note 4)
CAE 432	3 (IIT)
IPRO Capstone	3 (IIT)
Technology elective	3 (IIT) (Note 4)
Anthropology/Political Science elective	3 (BU) (Note 2)
FNAR/MUSI	3 (BU) (Note 3)
	18

TOTAL

168 minimum

Note 1. PHYS C211, C205, C212, C206, 213 (BU) = PHYS 123, 221, 224 (IIT).

Note 2. Choose upper and lower level Social Science electives from approved courses.

Note 3. Choose upper and lower level Humanities electives from approved courses.

Note 4. Of the total of five technical electives, one must be a 300-level Science or Math elective at Benedictine, one must be a fourth-year IPRO, and three must be CAE (400-plus level) courses.

Recommended Program

BU+IIT (Five-year Architectural Engineering Program) B.A. in Engineering Science at Benedictine/B.S. in Architectural Engineering at IIT

First Semester

MATH C210 and C207	5 (BU) (MATH 151)
WRIT S101	3 (BU)
CHEM C113 and C114	4 (BU) (CHEM 124)
Religious elective	3 (BU)
SPCH S110	3(BU)
	18

Third Semester

PHYS C211 and C205	5 (BU) (Note 1)
MATH C212	4 (BU) (MATH 251)
CMSC C180	4 (BU) (CAE 101)
ENGR 120	2 (BU) (CAE 100)
HUMN 220	3 (BU) (Note 2)
	18

Fifth Semester

CAE 105	3 (IIT)
AAH 119	3 (IIT)
PHYS 213	3 (BU) (Note 1)
ENGR 220	3 (BU) (MMAE 201)
HUMN 240	3 (BU) (Note 2)
Business/Economics elective	3 (BU) (Note 3)
	18

Seventh Semester

CAE 312	3 (IIT)
CAE 303	3 (IIT)
CAE 304	3 (IIT)
CAE 315	3 (IIT)
CAE 331	3 (IIT)
ECE 383	3 (IIT)
	18

Ninth Semester

CAE 401	2 (IIT)
CAE 462	4 (IIT)
CAE 463	3 (IIT)
CAE 464	3 (IIT)
Technology elective	3 (BU) (Note 4)
HUMN 250	3 (BU) (Note 2)
	18

Second Semester

MATH C211	4 (BU) (MATH 152)
Psychology/Sociology elective	3 (BU) (Note 3)
WRIT S102	3 (BU)
CHEM C123 and C124	4 (BU)
Life Sciences elective	3 (BU)
	17

Fourth Semester

MATH 260	4 (BU) (MATH 252)
PHYS C212 and C206	5 (BU) (Note 1)
HUMN 230	3 (BU) (Note 3)
CMSC C200	4 (BU) (CS 105)
	16

Sixth Semester

MMAE 202	3 (IIT)
CAE 302	3 (IIT)
CAE 309	4 (IIT)
ENGR 264	3 (BU)
Literature elective	3 (BU) (Note 2)
	16

Eighth Semester

CAE 307	3 (IIT)
CAE 323	3 (IIT)
CAE 334	3 (IIT)
CAE 461	3 (IIT)
IPRO elective	3 (IIT)
Philosophy elective	3 (BU) (Note 2)
	18

Tenth Semester

CAE 471	3 (IIT)
IPRO Capstone	3 (IIT)
CAE 400 plus level elective	3 (IIT)
Anthropology/Political Science elective	3 (BU) (Note 3)
FNAR/MUSI	3 (BU) (Note 2)
	15

TOTAL HOURS

172 minimum

Note 1. PHYS C211, C205, C212, C206, 213 (BU)=PHYS 123, 221, 224 (IIT).

Note 2. Choose upper and lower level Humanities electives from approved courses.

Note 3. Choose upper and lower level Social Science electives from approved courses.

Note 4. Choose a 300-level Science or Math course at Benedictine.

Recommended Program

BU+IIT (Five-year Chemical Engineering Program) B.A. in Engineering Science at Benedictine/B.S. in Chemical Engineering at IIT

First Semester

MATH C210 and C207	5 (BU) (MATH 151)
WRIT S101	3 (BU)
CHEM C113 and C114	4 (BU)
Literature elective	3 (BU)
ENGR 120	2 (BU)
	17

Third Semester

PHYS C211 and C205	5 (BU) (Note 1)
MATH C212	4 (BU) (MATH 251)
CMSC C180	4 (BU) (CHE 100)
CHEM 242 and 243	4 (BU) (CHEM 237)
	17

Fifth Semester

ChE 202	3 (IIT)
CHEM 313	3 (BU) (CHEM 343)
PHYS 213	3 (BU) (Note 1)
ENGR 220	3 (BU) (CHE 101)
HUMN 220	3 (BU) (Note 2)
Philosophy elective	3 (BU) (Note 2)
	18

Seventh Semester

ChE 302	3 (IIT)
ChE 351	3 (IIT)
CHEM 247(IIT)	3 (IIT)
ECE 383	3 (IIT)
Fine Arts/Music elective	3 (BU) (Note 2)
HUMN 230	3 (BU) (Note 2)
	18

Ninth Semester

ChE 418	2 (IIT)
ChE 423	3 (IIT)
ChE 435	3 (IIT)
ChE 494	3 (IIT)
Psychology/Sociology elective	3 (BU) (Note 3)
HUMN 250	3 (BU) (Note 2)
	17

Second Semester

MATH C211	4 (BU) (MATH 152)
Life Sciences elective	3 (BU)
CHEM C123 and C124	4 (BU) (CHEM 125)
WRIT S102	3 (BU)
SPCH S110	3 (BU)
	17

Fourth Semester

MATH 260	4 (BU) (MATH 252)
PHYS C212 and C206	5 (BU) (Note 1)
CMSC C200	4 (BU) (CS 105)
CHEM 247(BU)	3 (BU) (CHEM 239)
	16

Sixth Semester

ChE 301	3 (IIT)
I PRO 296	1 (IIT)
ENGR 264	3 (BU) (Tech elective)
CHEM 315 and 316	4 (BU) (CHEM 344)
Religious Studies elective	3 (BU) (Note 2)
Business/Economics elective	3 (BU) (Note 3)
	17

Eighth Semester

ChE 317	2 (IIT)
ChE 451	2 (IIT)
I PRO 397	3 (IIT)
ChE 433	3 (IIT)
Technology elective	3 (BU) (Note 4)
HUMN 240	3 (BU) (Note 2)
	16

Tenth Semester

ChE 406	3 (IIT)
ChE 439	3 (IIT)
I PRO 496	2 (IIT)
Technology elective	3 (IIT)
Technology elective	3 (BU) (Note 4)
Anthropology/Political Science elective	3 (BU) (Note 3)
	17

Total Hours

170 minimum

Note 1. PHYS C211, C205, C212, C206, 213 (BU) = PHYS 123, 221 (IIT).

Note 2. Choose upper and lower level Humanities electives from approved courses.

Note 3. Choose upper and lower level Social Science electives from approved courses.

Note 4. Choose a 300-level Science or Math course at Benedictine.

Recommended Program

BU+IIT (Five-year Computer Engineering Program) B.A. in Engineering Science at Benedictine/B.S. in Computer Engineering at IIT

First Semester

MATH C210 and C207	5 (BU) (MATH 151)
ENGR 120	2 (BU)
CHEM C113 and C114	4 (BU) (CHEM 124)
Anthropology/Political Science elective	3 (BU)
WRIT S101	3 (BU)
	17

Third Semester

PHYS C211 and C205	5 (BU) (Note 1)
MATH C212	4 (BU) (MATH 251)
MATH 240	4 (BU) (CS 330)
CMSC C180	4 (BU) (CPE 100)
	17

Fifth Semester

ECE 211	3 (IIT)
ECE 212	1 (IIT)
ECE 218	3 (IIT)
ENGR 220	3 (BU)
CMSC 205	3 (BU) (CS 331)
PHYS 213	3 (BU) (Note 1)
	16

Seventh Semester

ECE 311	4 (IIT)
CS 351	3 (IIT)
CMSC 350 (BU)	3 (BU) (MATH 333) (Note 8)
HUMN 240	3 (BU) (Note 3)
CMSC 220	3 (BU) (CS 350)
	16

Ninth Semester

ECE 441	4 (IIT)
ECE 429 or 446	4 (IIT)
CS 450	3 (IIT) (Note 6)
ECE 485	3 (IIT) (Note 7)
Religious Studies elective	3 (BU) (Note 3)
	17

Second Semester

MATH C211	4 (BU) (MATH 152)
WRIT S102	3 (BU)
SPCH S110	3 (BU)
CHEM C123 and C124	4 (BU)
Life Sciences elective	3 (BU)
	17

Fourth Semester

MATH 260	4 (BU) (MATH 252)
HUMN 220	3 (BU) (Note 3)
PHYS C212 and C206	5 (BU) (Note 1)
CMSC C200	4 (BU) (CS 105 and 106)
	16

Sixth Semester

ECE 213	3 (IIT)
ECE 214	1 (IIT)
ENGR 264	3 (BU)
Business/Economics elective	3 (BU) (Note 2)
HUMN 230	3 (BU) (Note 3)
Psychology/Sociology elective	3 (BU) (Note 2)
	16

Eighth Semester

IPro I	3 (IIT) (Note 5)
MATH 474	3 (IIT)
Junior CPE elective	3-4 (IIT) (Note 4)
HUMN 250	3 (BU) (Note 2)
Literature elective	3 (BU) (Note 3)
	15-16

Tenth Semester

Prof CPE elective	3-4 (IIT)
Prof CPE elective	3-4 (IIT)
CS 487	3 (IIT)
IPro II	3 (IIT) (Note 5)
Philosophy elective	3 (BU) (Note 3)
FNAR/MUSI	3 (BU) (Note 3)
	18-20

Total Hours

165 minimum

- Note 1. PHYS C211, C212, C205, C206, 213 (BU) = PHYS 123, 221, 224 (IIT).
 Note 2. Choose appropriate upper and lower level Social Science electives at Benedictine.
 Note 3. Choose appropriate upper and lower level Humanities electives at Benedictine.
 Note 4. Choose one of the following at IIT: ECE 307, ECE 308, ECE 309, ECE 312 or ECE 319
 Note 5. Interprofessional Projects may be taken at any time during the third, fourth or fifth years (course scheduling must be adjusted accordingly with advisor approval).
 Note 6. CS 450 must be taken at IIT. This course is equivalent to CMSC 310 at Benedictine.
 Note 7. CS 470 may be substituted with advisor approval.
 Note 8. 300-level Science or Math elective at Benedictine.

Recommended Program

BU + IIT (Five-year Computer Engineering Program) B.S. in Engineering Science at Benedictine/B.S. in Computer Engineering at IIT

First Semester

MATH C210 and C207	5 (BU) (MATH 151)
WRIT S101	3 (BU)
CHEM C113	3 (BU) (CHEM 112)
Anthropology/Political Science elective	3 (BU)
Psychology/Sociology elective	3 (BU) (Note 2)
	17

Third Semester

MATH C212	4 (BU) (MATH 251)
HUMN 220	3 (BU) (Note 3)
PHYS C211 and C205	5 (BU) (Note 1)
CMSC C180	4 (BU) (ECE 100)
	16

Fifth Semester

ECE 211	3 (IIT)
ECE 212	1 (IIT)
ECE 218	3 (IIT)
MMAE 200 or 320	3 (IIT)
CMSC 205	3 (BU) (CS 331)
PHYS 213	3 (BU) (Note 1)
	16

Seventh Semester

ECE 311	4 (IIT)
CS 351	3 (IIT)
CMSC 350	3 (BU) (MATH 471)
CMSC 220	3 (BU) (CS 350)
HUMN 240	3 (BU) (Note 3)
	16

Ninth Semester

ECE 441	4 (IIT)
ECE 429 or 446	4 (IIT)
CS 450	3 (IIT) (Note 5)
ECE 485	3 (IIT) (Note 7)
CMSC 375	3 (BU) (CS 487)
	17

Second Semester

MATH C211	4 (BU) (MATH 152)
Religious Studies elective	3 (BU) (Note 3)
WRIT S102	3 (BU)
SPCH S110	3 (BU)
Life Sciences elective	3 (BU) (Science Elective) (Note 8)
	16

Fourth Semester

MATH 260	4 (BU) (MATH 252)
MATH 240	4 (BU) (CS 330)
CMSC C200	4 (BU) (CS115 and 116)
PHYS C212 and C206	5 (BU) (Note 1)
	17

Sixth Semester

ECE 213	3 (IIT)
ECE 214	1 (IIT)
HUMN 230	3 (BU) (Note 3)
Philosophy elective	3 (BU) (Note 3)
CMSC 270	3 (BU)
CMSC 274	3 (BU) (CS 441) (CPE elective)
	16

Eighth Semester

IPro I	3 (IIT) (Note 6)
MATH 474	3 (IIT)
Junior CPE elective	3-4 (IIT) (Note 4)
CMSC 330	3 (BU) (CS425) (CPE elective)
HUMN 250	3 (BU) (Note 2)
	15-16

Tenth Semester

IPro II	3 (IIT) (Note 6)
Literature elective	3 (BU) (Note 3)
CMSC 398	3 (BU)
Fine Arts/Music elective	3 (BU) (Note 3)
Business/Economics elective	3 (BU) (Note 2)
	15

Total Hours

161 minimum

- Note 1. PHYS C211, C212, C205, C206, 213 (BU) = PHYS 123, 221, 224 (IIT).
 Note 2. Choose appropriate upper and lower level Social Science electives at Benedictine.
 Note 3. Choose appropriate upper and lower level Humanities electives at Benedictine.
 Note 4. Choose one of the following at IIT: ECE 307, ECE 308, ECE 309, ECE 312 or ECE 319.
 Note 5. CS 450 must be taken at IIT. This course is equivalent to CMSC 310 at Benedictine.
 Note 6. Interprofessional Projects may be taken at any time during the third, fourth or fifth years (course scheduling must be adjusted accordingly with advisor approval).
 Note 7. CS 470 may be substituted with adviser approval.
 Note 8. Science elective must be the equivalent of IIT BIOL 107, CHEM 126 or MS 201. Students may complete BIOL C108 at Benedictine to fulfill this requirement.