



Cornell University

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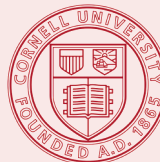


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RECORD OF: Edward Arthur Bingham



CORNELL I.D. NO.: 2138660

RECORD DATE: 12/25/2021

PAGE: 1 of 5

COURSE TITLE	SUBJECT/NUMBER	TOTAL		UNITS	GRADE
		MEDIAN	ENROLLED		

**FALL 2009**  
 Program: Engineering  
 Plan: Unaffiliated

INTRODUCTION TO ARCHITECTURE	ARCH	1301	(A)	(155)	3.00	B+
INTRO COMPUTING USING MATLAB	CS	1112	(B)	(262)	4.00	A-
FWS: WRIT ABOUT FILM	ENGL	1108	(A-)	(64)	3.00	B
ENGINEERING SEMINAR	ENGRG	1050	(N/A)		1.00	SX
SPECIAL INVESTIGATIONS IN MAE	MAE	4900	(A)	(221)	0.00	NGR
MULTIVARIABLE CALCULUS ENGRS	MATH	1920	(B)	(455)	4.00	B-
TAE KWON DO	PE	1375	(N/A)		1.00	SX
INTRO TO SPECIAL RELATIVITY	PHYS	2216	(N/A)		1.00	SX

TEST CREDITS APPLIED TOWARD ENGINEERING PROGRAM

AP Mathematics: Calculus BC	MATH	1910			4.00	5.0
AP Physics B	PHYS	1112			4.00	5.0
Transfer Totals:					8.00	

**SPRING 2010**  
 Program: Engineering  
 Plan: Unaffiliated

ENGINEERING GENERAL CHEMISTRY	CHEM	2090	(B)	(141)	4.00	B+
TRANSITION TO OO PROGRAMMING	CS	1130	(N/A)		1.00	SX
FWS: SERIAL NOVEL GOES GRAPHIC	ENGL	1123	(A-)	(33)	3.00	B
INTRO TO NANOSCIENCE & NANOENG	ENGR1	1200	(A)	(33)	3.00	B
INDIVID/GROUP PROJECTS IN M.E.	MAE	4900	(A)	(190)	3.00	A-
LINEAR ALGEBRA FOR ENGINEERS	MATH	2940	(B)	(354)	4.00	B-
INTERMEDIATE TAE KWON DO	PE	1376	(N/A)		1.00	SX
PHYSICS II: ELEC&MAG	PHYS	2213	(B+)	(172)	4.00	A-

**FALL 2010**  
 Program: Engineering  
 Plan: Unaffiliated

INTRO TO CIRC ELEC & COMP ENGR	ECE	2100	(B+)	(66)	4.00	B+
OBJ-ORIENTED PROG & DATA STRUC	ENGRD	2110	(B+)	(193)	3.00	A
INDIVID/GROUP PROJECTS IN M.E.	MAE	4900	(A)	(160)	3.00	B+
DIFFERENTIAL EQUATIONS ENGRS	MATH	2930	(B)	(370)	4.00	B
SWIM CONDITIONING	PE	1104	(N/A)		1.00	SX
JUDO	PE	1355	(N/A)		1.00	SX
INTERMEDIATE TAE KWON DO	PE	1376	(N/A)		1.00	SX
PHYS III-OSC WAVES & QUAN PHYS	PHYS	2214	(B+)	(124)	4.00	B+

*Rhonda Kitch*

**RHONDA K. KITCH, PH.D.  
UNIVERSITY REGISTRAR**

COURSE TITLE	SUBJECT/NUMBER	TOTAL		UNITS	GRADE
		MEDIAN	ENROLLED		

**SPRING 2011**  
 Program: Engineering  
 Plan: Electrical and Computer Engineering

SIGNALS & SYSTEMS	ECE	2200	(B)	(95)	4.00	A-
INTRO TO DIG LOGIC DESIGN	ECE	2300	(B)	(46)	4.00	A-
ECE PRACTICE & DESIGN	ECE	2400	(A-)	(71)	4.00	A
COMPUTER ORGANIZATION	ECE	3140	(B+)	(99)	4.00	B+
TANGO	PE	1167	(N/A)		1.00	SX
INTERMEDIATE TAE KWON DO	PE	1376	(N/A)		1.00	SX
SWEDISH MASSAGE	PE	1412	(N/A)		1.00	SX

\*\*DEAN'S LIST\*\*

**SUMMER 2011**  
 Program: Engineering  
 Plan: Electrical and Computer Engineering  
 Plan: Engineering Coop Courses

OPERATING SYSTEMS	CS	4410	(N/A)		3.00	A-
ELECTROMAGNETIC FIELDS & WAVES	ECE	3030	(N/A)		4.00	B
PROBABILITY AND INFERENCE	ECE	3100	(N/A)		4.00	B
STATICS & MECHANICS OF SOLIDS	ENGRD	2020	(N/A)		4.00	B+

**FALL 2011**  
 Program: Engineering  
 Plan: Electrical and Computer Engineering  
 Plan: Engineering Coop Program

IN ABSENTIA	UNIV	4000	(N/A)		0.00	SX
COURSE TOPIC(S): ENGR COOP IN ABSENTIA						

**SPRING 2012**  
 Program: Engineering  
 Plan: Electrical and Computer Engineering  
 Plan: Engineering Coop Program

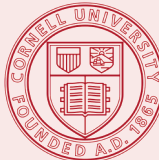
INTRO TO MICROELECTRONICS	ECE	3150	(B-)	(86)	4.00	C-
COMPUTER NETWORKS & TELCOMM	ECE	4450	(A)	(95)	4.00	B+
DIGITAL VLSI DESIGN	ECE	4740	(B+)	(45)	4.00	B+
DIGITAL SYS DESGN-MICROCONTROL	ECE	4760	(A)	(92)	4.00	A
INTERMEDIATE TAE KWON DO	PE	1376	(N/A)		1.00	SX

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CORNELL I.D. NO.: 2138660

RECORD DATE: 12/25/2021

PAGE: 2 of 5

COURSE TITLE	SUBJECT/NUMBER	MEDIAN	TOTAL		UNITS	GRADE
			ENROLLED			

FALL 2012

Program: Engineering  
Plan: Electrical and Computer Engineering

HUMAN-COMPUTER INTERACTION	DES COMM	3450	(A-)	(84)	3.00	B+
COMPUTER ARCHITECTURE	ECE	4750	(A-)	(45)	4.00	B+
ADVANCED DIGITAL VLSI	ECE	5740	(N/A)		4.00	A+
INTERMEDIATE TAE KWON DO	PE	1376	(N/A)		1.00	SX
DEATH OF GOD	RELST	3342	(B+)	(31)	4.00	B+

SUCCESSFULLY COMPLETED THE REQUIREMENTS OF THE ENGINEERING CO-OP PROGRAM

\*\*DEAN'S LIST\*\*

SPRING 2013

Program: Engineering  
Plan: Electrical and Computer Engineering

ANCIENT PEOPLES&PLACES	ANTHR	1200	(B+)	(108)	3.00	C+
INTRO TO CONTROLLED FUSION	ECE	4840	(A-)	(22)	3.00	A-
ECE INDEPENDENT PROJECT	ECE	4999	(A)	(36)	4.00	A
INTERNATIONAL TRADE & FINANCE	ECON	2300	(B)	(252)	3.00	C
INTRODUCTION TO LINGUISTICS	LING	1101	(B+)	(40)	4.00	B
INTERMEDIATE TAE KWON DO	PE	1376	(N/A)		1.00	SX

Cumulative GPA: 3.292

CORNELL UNIVERSITY  
ENGINEERING  
BACHELOR OF SCIENCE  
ELECTRICAL AND COMPUTER ENGINEERING  
MAY 26, 2013

*Rhonda Kitch*

**RHONDA K. KITCH, PH.D.**  
**UNIVERSITY REGISTRAR**

COURSE TITLE	SUBJECT/NUMBER	MEDIAN	TOTAL		UNITS	GRADE
			ENROLLED			

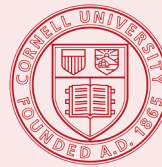
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CORNELL I.D. NO.: 2138660

RECORD DATE: 12/25/2021

PAGE: 3 of 5

COURSE TITLE	SUBJECT/NUMBER	MEDIAN	TOTAL ENROLLED	UNITS	GRADE
<b>SUMMER 2013</b>					
Program: Electrical & Computer Engrng					
Plan: Electrical and Computer Engineering					
GRADUATE SUMMER RESEARCH	GRAD 9006			0.00	SX
<b>FALL 2013</b>					
Program: Electrical & Computer Engrng					
Plan: Electrical and Computer Engineering					
Plan: Computer Engineering Concentration					
Plan: Electrical Engineering Concentration					
PARALLEL/DISTRIBUTED COMPUTING	CS 5460			3.00	A
THESIS RESEARCH	ECE 7910			12.00	SX
<b>SPRING 2014</b>					
Program: Electrical & Computer Engrng					
Plan: Electrical and Computer Engineering					
Plan: Computer Engineering Concentration					
Plan: Electrical Engineering Concentration					
THESIS RESEARCH	ECE 7920			12.00	SX
COMBINATORIAL OPTIMIZATION	ORIE 6334			0.00	V
<b>FALL 2014</b>					
Program: Electrical & Computer Engrng					
Plan: Electrical and Computer Engineering					
Plan: Computer Engineering Concentration					
Plan: Electrical Engineering Concentration					
INTRO TO DATABASE SYSTEMS	CS 5320			3.00	A-
MOBILE & UBIQUITOUS COMPUTING	CS 5454			4.00	A
<b>SPRING 2015</b>					
Program: Electrical & Computer Engrng					
Plan: Electrical and Computer Engineering					
Plan: Computer Engineering Concentration					
Plan: Electrical Engineering Concentration					
THESIS RESEARCH	ECE 7920			14.00	SX

COURSE TITLE	SUBJECT/NUMBER	MEDIAN	TOTAL ENROLLED	UNITS	GRADE
<b>SUMMER 2015</b>					
Program: Electrical & Computer Engrng					
Plan: Electrical and Computer Engineering					
Plan: Computer Engineering Concentration					
Plan: Electrical Engineering Concentration					
GRADUATE SUMMER RESEARCH	GRAD 9006			0.00	SX
<b>FALL 2015</b>					
Program: Electrical & Computer Engrng					
Plan: Electrical and Computer Engineering					
Plan: Computer Engineering Concentration					
Plan: Electrical Engineering Concentration					
THESIS RESEARCH	ECE 7910			15.00	SX
DOCTORAL DISSERTATION RESEARCH	GRAD 9011			0.00	SX
<b>SPRING 2016</b>					
Program: Electrical & Computer Engrng					
Plan: Electrical and Computer Engineering					
Plan: Computer Engineering Concentration					
Plan: Electrical Engineering Concentration					
GRADUATE-LEVEL RESEARCH	GRAD 9010			12.00	SX
<b>FALL 2016</b>					
Program: Electrical & Computer Engrng					
Plan: Electrical and Computer Engineering					
Plan: Computer Engineering Concentration					
Plan: Electrical Engineering Concentration					
GRADUATE-LEVEL RESEARCH	GRAD 9010			12.00	SX
<b>SPRING 2017</b>					
Program: Electrical & Computer Engrng					
Plan: Electrical and Computer Engineering					
Plan: Computer Engineering Concentration					
Plan: Electrical Engineering Concentration					
Plan: Exchange Program Out					
Program: Electrical & Computer Engrng					
Plan: Electrical and Computer Engineering					
IN ABSENTIA	GRAD 8000			12.00	SX
PARTICIPANT OF THE EXCHANGE SCHOLAR PROGRAM AT YALE UNIVERSITY SPRING 2017					

*Rhonda Kitch*

**RHONDA K. KITCH, PH.D.  
UNIVERSITY REGISTRAR**

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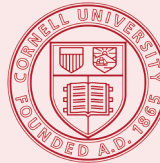
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PAGE: 4 of 5

COURSE TITLE	SUBJECT/NUMBER	TOTAL MEDIAN ENROLLED	UNITS	GRADE
<b>FALL 2017</b>				
Program:	Electrical & Computer Engrng			
Plan:	Electrical and Computer Engineering			
Plan:	Computer Engineering Concentration			
Plan:	Electrical Engineering Concentration			
Plan:	Exchange Program Out			
IN ABSENTIA	GRAD	8000	12.00	<b>SX</b>
PARTICIPANT OF THE EXCHANGE SCHOLAR PROGRAM AT YALE UNIVERSITY FALL 2017				
<b>SPRING 2018</b>				
Program:	Electrical & Computer Engrng			
Plan:	Electrical and Computer Engineering			
Plan:	Computer Engineering Concentration			
Plan:	Electrical Engineering Concentration			
Plan:	Exchange Program Out			
IN ABSENTIA	GRAD	8000	12.00	<b>SX</b>
PARTICIPANT OF THE EXCHANGE SCHOLAR PROGRAM AT YALE UNIVERSITY SPRING 2018				
<b>FALL 2018</b>				
Program:	Electrical & Computer Engrng			
Plan:	Electrical and Computer Engineering			
Plan:	Computer Engineering Concentration			
Plan:	Electrical Engineering Concentration			
Plan:	Exchange Program Out			
IN ABSENTIA	GRAD	8000	12.00	<b>NG</b>
PARTICIPANT OF THE EXCHANGE SCHOLAR PROGRAM AT YALE UNIVERSITY FALL 2018				
<b>SPRING 2019</b>				
Program:	Electrical & Computer Engrng			
Plan:	Electrical and Computer Engineering			
Plan:	Computer Engineering Concentration			
Plan:	Electrical Engineering Concentration			
Plan:	Exchange Program Out			
IN ABSENTIA	GRAD	8000	12.00	<b>NG</b>
PARTICIPANT OF THE EXCHANGE SCHOLAR PROGRAM AT YALE UNIVERSITY SPRING 2019				

COURSE TITLE	SUBJECT/NUMBER	TOTAL MEDIAN ENROLLED	UNITS	GRADE
<b>FALL 2019</b>				
Program:	Electrical & Computer Engrng			
Plan:	Electrical and Computer Engineering			
Plan:	Computer Engineering Concentration			
Plan:	Electrical Engineering Concentration			
Plan:	Exchange Program Out			
IN ABSENTIA	GRAD	8000	12.00	<b>NG</b>
PARTICIPANT OF THE EXCHANGE SCHOLAR PROGRAM AT YALE UNIVERSITY FALL 2019				
<b>SPRING 2020</b>				
Program:	Electrical & Computer Engrng			
Plan:	Electrical and Computer Engineering			
Plan:	Computer Engineering Concentration			
Plan:	Electrical Engineering Concentration			
Plan:	Exchange Program Out			
DURING THE SPRING 2020 SEMESTER, THE COVID-19 PANDEMIC REQUIRED SIGNIFICANT CHANGES TO COURSEWORK. UNUSUAL ENROLLMENT PATTERNS AND GRADES REFLECT THE TUMULT OF THE TIME, NOT NECESSARILY THE WORK OF THE INDIVIDUAL.				
IN ABSENTIA	GRAD	8000	12.00	<b>NG</b>
PARTICIPANT OF THE EXCHANGE SCHOLAR PROGRAM AT YALE UNIVERSITY SPRING 2020				
<b>FALL 2020</b>				
Program:	Electrical & Computer Engrng			
Plan:	Electrical and Computer Engineering			
Plan:	Computer Engineering Concentration			
Plan:	Electrical Engineering Concentration			
Plan:	Exchange Program Out			
IN ABSENTIA	GRAD	8000	12.00	<b>NG</b>
PARTICIPANT OF THE EXCHANGE SCHOLAR PROGRAM AT YALE UNIVERSITY FALL 2020				

CORNELL UNIVERSITY  
 GRADUATE SCHOOL  
 MASTER OF SCIENCE  
 ELECTRICAL AND COMPUTER ENGINEERING  
 MAY 28, 2017

*Rhonda Kitch*  
**RHONDA K. KITCH, PH.D.**  
**UNIVERSITY REGISTRAR**

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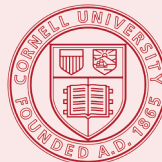
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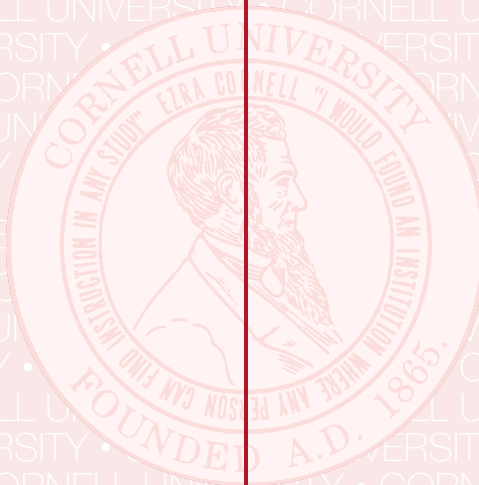
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PAGE: 5 of 5

COURSE TITLE	SUBJECT/NUMBER	MEDIAN	TOTAL ENROLLED	UNITS	GRADE	COURSE TITLE	SUBJECT/NUMBER	MEDIAN	TOTAL ENROLLED	UNITS	GRADE
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CORNELL UNIVERSITY  
 GRADUATE SCHOOL  
 DOCTOR OF PHILOSOPHY  
 ELECTRICAL AND COMPUTER ENGINEERING  
 COMPUTER ENGINEERING CONCENTRATION  
 ELECTRICAL ENGINEERING CONCENTRATION  
 DECEMBER 31, 2020

END OF TRANSCRIPT



*Rhonda Kitch*

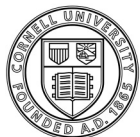
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- CNC - Course cancelled after the ninth week of term.
- FS, FWS - First-Year Writing Seminar - Equivalent to one term of English Composition at many institutions.
- GL - In the descriptive title area - course taken at graduate level by Summer Session and Extramural students only.
- H - "HONORS" for LL. M. Candidates.
- HH - "HIGH HONORS" for LL. M. Candidates.
- INC - Course not completed for reasons acceptable to Instructor.
- NA - Not attending.
- NG - Non-graded course - Grades are not awarded for these courses.
- NGR - No grade reported - Instructor has not submitted a grade for this course.
- R - Represents multi-term course not graded until the end of the sequence.
- S/U - "S" means C- or above; "U" means D+, D, D- or failure.
- SX/UX - Indicates that a course is graded exclusively on "S" or "U" basis.
- V - Visitor - Audit; course taken on a non-credit basis.
- W - Indicates withdrawal from course after deadline.
- \* - Preceding credit hours - indicates temporary credit. Total credit earned with final grade for course appears in the term following.
- \* - In the grade field - indicates that the course was originally graded INC and has subsequently been completed.

**Cornell Study Abroad** - Transcript indicates courses taken, credits earned and foreign grades received. Foreign grades are not translated to the Cornell grading system.

**Physical Education** - Before 1982, Physical Education courses automatically printed on the transcript. If student took the course, the grade would be SX. If student did not enroll in the course, the grade would be UX.

**Accreditation** - Cornell University is accredited by the Middle States Association of Colleges and Schools.

**Language** - All courses are taught using the English language with the exception of certain language courses, e.g., French Literature or Japanese.

**Median Grades** - Median grades are posted on transcripts for all undergraduates matriculating in the Fall 2008 and after. Median grades are not reported for all courses.

### Credit Hour Definition

A student will receive one credit by satisfactorily completing a course that requires at least fifteen hours (15) of instruction and at least thirty hours (30) of supplementary assignments. Hours are adjusted proportionately for other formats of study, e.g., laboratory, studio, research problem-based learning, and independent study.

### Dean's List

Posting the Dean's List notation began with Fall term 1971. Dean's List awards are posted for all Undergraduate units.

### Grading Systems prior to September 1965

These are described on a separate sheet which is provided with appropriate transcripts.

### Current Grading System

Grades are on a letter scale: A+ through D-, pass; F, failure. The grades of S (satisfactory) or U (unsatisfactory) may be used when no greater precision in grading is required. Grades of S or U are not assigned numerical value and thus are not averaged with other grades in computing grade point averages.

Letter grade values are combined with course credit hours to produce an average based on a 4.3 scale.

For the purpose of computing semester, year or cumulative averages, each letter grade is assigned a quality point value as follows:

A+ = 4.3	B+ = 3.3	C+ = 2.3	D+ = 1.3	
A = 4.0	B = 3.0	C = 2.0	D = 1.0	F = 0
A- = 3.7	B- = 2.7	C- = 1.7	D- = 0.7	

Beginning with Fall term 1983, Law School averages are computed using the following point values:

A+ = 4.33	B+ = 3.33	C+ = 2.33	D+ = 1.33	
A = 4.00	B = 3.00	C = 2.00	D = 1.00	F = 0
A- = 3.67	B- = 2.67	C- = 1.67	D- = 0.67	

**There is only one official university transcript for an individual student which represents the complete Cornell University academic record.**

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