

# Dual Degree in BME and a Modern Language

The BME program offers a five-year dual degree program with the Department of Modern and Classical Languages in French, German, Italian and Spanish. Students with a strong background in a modern language can usually fulfill the dual degree program in less than five years. Supplemented with a study abroad experience, the dual degree program is an excellent preparation for work in the global economy. See the following pages for a description of the course of study.



# Bachelor of Science in Engineering in Biomedical Engineering & French <sup>1</sup>

Course	Credits	
<b>FRESHMAN (31)</b>	CHEM 1127Q – General Chemistry	4
	MATH 1131Q – Calculus I	4
	CSE 1010 - Introduction to Computing for Engineers	3
	ENGL 1010 or 1011 – Seminar in Academic Writing or Seminar in Writing Through Literature	4
	ENGR 1000 - Orientation to Engineering	1
	CHEM 1128Q – General Chemistry	4
	MATH 1132Q – Calculus II	4
<b>SOPHOMORE (36)</b>	BIOL 1107 – Principles of Biology	4
	ENGR 1166 - Foundations of Engineering (BME Section)	3
	PHYS 1501Q – Physics for Engineers I	4
	MATH 2110Q – Multivariable Calculus	4
	BME 3150 – Statics & Dynamics for Biomedical Engineers	3
	BME 3100 – Physiological Modeling	3
	Content Area 1 CLAS ARTS (Not in PHIL or in FREN)	3
<b>JUNIOR (31)</b>	PHYS 1502Q – Physics for Engineers II	4
	BME 3120 – LabVIEW Basics for Biomedical Engineers	1
	BME 3400 – Biosystem Analysis	4
	ECE 2001W – Electrical Circuits	4
	FREN 1164	3
	MATH 2410Q – Elementary Differential Equations	3
	BME 3500 – Biomedical Engineering Measurements	4
	BME 3600W – Biomechanics	4
	PNB 2264 - Human Physiology and Anatomy	4
	MSE 2101 - Material Science & Engineering I or MSE 2001 – Struc, Prop, & Proc Mater I	3
<b>SENIOR (31)</b>	BME 3700 – Biomaterials (Study Abroad)	4
	Engineering Elective (Study Abroad)	3
	STAT 3025Q – Statistical Methods (Calculus Level) (Study Abroad)	3
	CHEM 2443 – Organic Chemistry (Study Abroad)	3
	2000 - Level FREN Class (Study Abroad)	3
	Biomedical Engineering Elective	3
	Engineering Elective	3
	2000 - Level FREN Class	3
	PHIL 1104 – Philosophy & Ethics	3
	FREN 3261W (CLAS Content Area 1 Literature)	3
<b>5th Year (36)</b>	Biomedical Engineering Elective	3
	Engineering Elective	3
	FREN 3262W	3
	Content Area 2 (Social Sciences)	3
	BME 3130 – LabVIEW Intermediate for Biomedical Engineers	1
	FREN 3211 (CLAS Category 4 International)	3
	BME 4900 – Biomedical Engineering Design I	3
	BME 3300 – Biochemical Engineering for BME's	3
	FREN 3268W	3
	FREN 3269	3
Content Area 4 (Multiculturalism)	3	
Content Area 2 (Social Sciences; not same department as in Senior Year)	3	
BME 4910 – Biomedical Engineering Design II	3	
Engineering Elective	3	
2000 - Level Language Class FREN 3257	3	
2000 - Level FREN Class	3	
2000 - Level FREN Class	3	
Content Area 1 CLAS History	3	

<sup>1</sup> With 3 Years of HS Foreign Language. Study Abroad can be either semester in the junior year. Total Credit Hours: 165

## Bachelor of Science in Engineering in Biomedical Engineering & French<sup>2</sup>

Course	Credits		
<b>FRESHMAN (37)</b>	CHEM 1127Q - General Chemistry	4	
	MATH 1131Q - Calculus I	4	
	CSE 1010 - Introduction to Computing for Engineers	3	
	ENGL 1010 or 1011 - Seminar in Academic Writing or Seminar in Writing Through Literature	4	
	ENGR 1000 - Orientation to Engineering	1	
	FREN 1161	3	
	CHEM 1128Q - General Chemistry	4	
	MATH 1132Q - Calculus II	4	
	BIOL 1107 - Principles of Biology	4	
	ENGR 1166 - Foundations of Engineering for BMEs	3	
	FREN 1162	3	
	<b>SOPHOMORE (36)</b>	PHYS 1501Q - Physics for Engineers I	4
		MATH 2110Q - Multivariable Calculus	4
BME 3150 - Statics & Dynamics for Biomedical Engineers		3	
BME 3100 - Physiological Modeling		3	
FREN 1163		3	
PHYS 1502Q - Physics for Engineers II		4	
BME 3120 LabVIEW Basics for Biomedical Engineers		1	
BME 3400 - Biosystem Analysis		4	
MATH 2410Q - Elementary Differential Equations		3	
ECE 2001W - Electrical Circuits		4	
FREN 1164		3	
<b>JUNIOR (31)</b>		BME 3500 - Biomedical Engineering Measurements	4
		BME 3600W - Biomechanics	4
	PNB 2264 - Human Physiology and Anatomy	4	
	MSE 2101 - Material Science & Engineering I or MSE 2001 - Stuc, Prop, & Proc Mater I	3	
	BME 3700 - Biomaterials (Study Abroad)	4	
	Engineering Elective (Study Abroad)	3	
	STAT 3025Q - Statistical Methods (Calculus Level) (Study Abroad)	3	
	CHEM 2443 - Organic Chemistry (Study Abroad)	3	
2000 - Level FREN Class (Study Abroad)	3		
<b>SENIOR (34)</b>	Biomedical Engineering Elective	3	
	Engineering Elective	3	
	2000 - Level FREN Class	3	
	Content Area 1 CLAS ARTS (Not in PHIL or in FREN)	3	
	PHIL 1104 - Philosophy & Ethics	3	
	FREN 3261W ( CLAS Content Area 1 Literature)	3	
	Biomedical Engineering Elective	3	
	Engineering Elective	3	
	FREN 3262W	3	
	Content Area 2 (Social Sciences)	3	
	BME 3130 LabVIEW Intermediate for Biomedical Engineers	1	
	FREN 3211 (CLAS Content Area 4 International)	3	
	<b>5th Year (36)</b>	BME 4900 - Biomedical Engineering Design I	3
BME 3300 - Biochemical Engineering for BME's		3	
FREN 3268W		3	
Content Area 4 (Multiculturalism)		3	
FREN 3269		3	
Content Area 2 (Social Sciences; not same department as in Senior Year)		3	
BME 4910 - Biomedical Engineering Design II		3	
Engineering Elective		3	
2000 - Level Language Class FREN 3257		3	
2000 - Level FREN Class		3	
2000 - Level FREN Class	3		
Content Area 1 CLAS History	3		

<sup>2</sup> Without 3 Years of HS Foreign Language. Study Abroad can be either semester in the junior year. Total Credit Hours: 174

## Bachelor of Science in Engineering in Biomedical Engineering & German<sup>3</sup>

Course	Credits	
<b>FRESHMAN (31)</b>	CHEM 1127 Q - General Chemistry	4
	MATH 1131Q - Calculus I	4
	CSE 1010 - Introduction to Computing for Engineers	3
	ENGL 1010 or 1011 - Seminar in Academic Writing or Seminar in Writing Through Literature	4
	ENGR 1000 - Orientation to Engineering	1
	CHEM 1128Q - General Chemistry	4
	MATH 1132Q - Calculus II	4
	BIOL 1107 - Principles of Biology	4
	ENGR 1166 - Foundations of Engineering for BMEs	3
	<b>SOPHOMORE (36)</b>	PHYS 1501Q - Physics for Engineers I
MATH 2110Q - Multivariable Calculus		4
BME 3150 - Statics & Dynamics for Biomedical Engineers		3
BME 3100 - Physiological Modeling		3
Content Area 2 (Social Sciences)		3
PHYS 1502Q - Physics for Engineers II		4
BME 3120 - LabVIEW Basics for Biomedical Engineers		1
BME 3400 - Biosystem Analysis		4
ECE 2001W - Electrical Circuits		4
GERM 1134		3
MATH 2410Q - Elementary Differential Equations	3	
<b>JUNIOR (31)</b>	BME 3500 - Biomedical Engineering Measurements	4
	BME 3600W - Biomechanics	4
	PNB 2264 - Human Physiology and Anatomy	4
	MSE 2101 - Material Science & Engineering I or MSE 2001 - Struc, Prop, & Proc Mater I	3
	BME 3700 - Biomaterials (Study Abroad)	4
	Engineering Elective (Study Abroad)	3
	STAT 3025Q - Statistical Methods (Calculus Level) (Study Abroad)	3
	CHEM 2443 - Organic Chemistry (Study Abroad)	3
2000 - Level GERM Class (Study Abroad)	3	
<b>SENIOR (31)</b>	Biomedical Engineering Elective	3
	Engineering Elective	3
	Content Area 1 (World Cultures; not in GERM)	3
	PHIL 1104 - Philosophy & Ethics	3
	Content Area 4 (Multiculturalism) GERM 3251	3
	GERM 3233	3
	Biomedical Engineering Elective	3
	Engineering Elective	3
	GERM 3255W ( CLAS Content Area 1 Literature)	3
	BME 3130 - LabVIEW Intermediate for Biomedical Engineers	1
GERM 3261W (CLAS Content Area 1 Arts and Content Area 4 International)	3	
<b>5th Year (33)</b>	BME 4900 - Biomedical Engineering Design I	3
	BME 3300 - Biochemical Engineering for BME's	3
	GERM 3234	3
	GERM 4246	3
	2000 - Level GERM Content Area 2	3
	Content Area 2 (Social Sciences; not same department as in Senior Year)	3
	BME 4910 - Biomedical Engineering Design II	3
	Engineering Elective	3
	2000 - Level GERM Content Area 2	3
	2000 - Level GERM Content Area 4	3
Content Area 1 CLAS History	3	

<sup>3</sup> With 3 Years of HS Foreign Language. Study Abroad can be either semester in the junior year. Total Credit Hours: 162

## Bachelor of Science in Engineering in Biomedical Engineering & German<sup>4</sup>

Course	Credits	
<b>FRESHMAN (37)</b>	CHEM 1127 Q - General Chemistry	4
	MATH 1131Q - Calculus I	4
	CSE 1010 - Introduction to Computing for Engineers	3
	ENGL 1010 or 1011 - Seminar in Academic Writing or Seminar in Writing Through Literature	4
	ENGR 1000 - Orientation to Engineering	1
	GERM 1131	3
	CHEM 1128Q - General Chemistry	4
	MATH 1132Q - Calculus II	4
	BIOL 1107 - Principles of Biology	4
	ENGR 1166 - Foundations of Engineering for BMEs	3
	GERM 1132	3
<b>SOPHOMORE (36)</b>	PHYS 1501Q - Physics for Engineers I	4
	MATH 2110Q - Multivariable Calculus	4
	BME 3150 - Statics & Dynamics for Biomedical Engineers	3
	BME 3100 - Physiological Modeling	3
	GERM 1133	3
	PHYS 1502Q - Physics for Engineers II	4
	BME 3120 - LabVIEW Basics for Biomedical Engineers	1
	BME 3400 - Biosystem Analysis	4
	MATH 2410Q - Elementary Differential Equations	3
	ECE 2001W - Electrical Circuits	4
	GERM 1134	3
<b>JUNIOR (31)</b>	BME 3500 - Biomedical Engineering Measurements	4
	BME 3600W - Biomechanics	4
	PNB 2264 - Human Physiology and Anatomy	4
	MSE 2101 - Material Science & Engineering I or MSE 2001 - Stuc, Prop, & Proc Mater I	3
	BME 3700 - Biomaterials (Study Abroad)	4
	Engineering Elective (Study Abroad)	3
	STAT 3025Q - Statistical Methods (Calculus Level) (Study Abroad)	3
	CHEM 2443 - Organic Chemistry (Study Abroad)	3
2000 - Level GERM Class (Study Abroad)	3	
<b>SENIOR (34)</b>	Biomedical Engineering Elective	3
	Engineering Elective	3
	Content Area 1 (World Cultures; not in GERM)	3
	PHIL 1104 - Philosophy & Ethics	3
	GERM 3233	3
	Content Area 2 (Social Sciences)	3
	Biomedical Engineering Elective	3
	Engineering Elective	3
	GERM 3255W (CLAS Content Area 1 Literature)	3
	BME 3130 - LabVIEW Intermediate for Biomedical Engineers	1
	Content Area 4 (Multiculturalism) GERM 3251	3
	GERM 3261W (CLAS Content Area 1 Arts and Content Area 4 International)	3
<b>5th Year (33)</b>	BME 4900 - Biomedical Engineering Design I	3
	BME 3300 - Biochemical Engineering for BME's	3
	GERM 3234	3
	GERM 4246	3
	2000 - Level GERM Content Area 2	3
	Content Area 2 (Social Sciences; not same department as in Senior Year)	3
	BME 4910 - Biomedical Engineering Design II	3
	Engineering Elective	3
	2000 - Level GERM Content Area 2	3
	2000 - Level GERM Content Area 4	3
Content Area 1 CLAS History	3	

<sup>4</sup> Without 3 Years of HS Foreign Language. Study Abroad can be either semester in the junior year. Total Credit Hours: 171

## Bachelor of Science in Engineering in Biomedical Engineering & Italian<sup>5</sup>

Course	Credits
<b>FRESHMAN (31)</b>	
CHEM 1127 Q - General Chemistry	4
MATH 1131Q - Calculus I	4
CSE 1100C - Introduction to Computing	2
ENGL 1010 or 1011 - Seminar in Academic Writing or Seminar in Writing Through Literature	4
ENGR 1000 - Orientation to Engineering	1
CHEM 1128Q - General Chemistry	4
MATH 1132Q - Calculus II	4
BIOL 1107 - Principles of Biology	4
ENGR 1166 - Foundations of Engineering for BMEs	3
<b>SOPHOMORE (33)</b>	
PHYS 1501Q - Physics for Engineers I	4
MATH 2110Q - Multivariable Calculus	4
BME 3150 - Statics & Dynamics for Biomedical Engineers	3
BME 3100 - Physiological Modeling	3
PHYS 1502Q - Physics for Engineers II	4
BME 3120 - LabVIEW Basics for Biomedical Engineers	1
BME 3400 - Biosystem Analysis	4
MATH 2410Q - Elementary Differential Equations	3
ECE 2001W - Electrical Circuits	4
ILCS 1148	3
<b>JUNIOR (31)</b>	
BME 3500 - Biomedical Engineering Measurements	4
BME 3600W - Biomechanics	4
PNB 2264 - Human Physiology and Anatomy	4
MSE 2101 - Material Science & Engineering I or MSE 2001 - Struc, Prop, & Proc Mater I	3
BME 3700 - Biomaterials (Study Abroad)	4
Engineering Elective (Study Abroad)	3
STAT 3025Q - Statistical Methods (Calculus Level) (Study Abroad)	3
CHEM 2443 - Organic Chemistry (Study Abroad)	3
2000 - Level ILCS Class (Study Abroad)	3
<b>SENIOR (34)</b>	
Biomedical Engineering Elective	3
Engineering Elective	3
Content Area 1 (World Cultures; not in ILCS)	3
PHIL 1104 - Philosophy & Ethics	3
Content Area 2 (Social Sciences)	3
ILCS 3255W (CLAS Content Area 1 Literature)	3
Biomedical Engineering Elective	3
Engineering Elective	3
2000 - Level ILCS Class	3
BME 3130 - LabVIEW Intermediate for Biomedical Engineers	1
Content Area 4 (Multiculturalism)	3
ILCS 3260W (CLAS Content Area 1 Arts and Content Area 4 International)	3
<b>5th Year (36)</b>	
BME 4900 - Biomedical Engineering Design I	3
BME 3300 - Biochemical Engineering for BME's	3
2000 - Level ILCS Class	3
2000 - Level ILCS Class	3
2000 - Level ILCS Class	3
Content Area 2 (Social Sciences; not same department as in Senior Year)	3
BME 4910 - Biomedical Engineering Design II	3
Engineering Elective	3
2000 - Level ILCS Class	3
2000 - Level ILCS Class	3
2000 - Level ILCS Class	3
Content Area 1 CLAS History	3

<sup>5</sup> With 3 Years of HS Foreign Language. Study Abroad can be either semester in the junior year. Total Credit Hours: 165

## Bachelor of Science in Engineering in Biomedical Engineering & Italian<sup>6</sup>

Course	Credits
<b>FRESHMAN (37)</b>	
CHEM 1127Q - General Chemistry	4
MATH 1131Q - Calculus I	4
CSE 1010 - Introduction to Computing for Engineers	3
ENGL 1010 or 1011 - Seminar in Academic Writing or Seminar in Writing Through Literature	4
ENGR 1000 - Orientation to Engineering	1
ILCS 1145	3
CHEM 1128Q - General Chemistry	4
MATH 1132Q - Calculus II	4
BIOL 1107 - Principles of Biology	4
ENGR 1166 - Foundations of Engineering for BMEs	3
ILCS 1146	3
<b>SOPHOMORE (36)</b>	
PHYS 1501Q - Physics for Engineers I	4
MATH 2110Q - Multivariable Calculus	4
BME 3150 - Statics & Dynamics for Biomedical Engineers	3
BME 3100 - Physiological Modeling	3
ILCS 1147	3
PHYS 1502Q - Physics for Engineers II	4
BME 3120 - LabVIEW Basics for Biomedical Engineers	1
BME 3400 - Biosystem Analysis	4
MATH 2410Q - Elementary Differential Equations	3
ECE 2001W - Electrical Circuits	4
ILCS 1148	3
<b>JUNIOR (33)</b>	
BME 3500 - Biomedical Engineering Measurements	4
BME 3600W - Biomechanics	4
PNB 2264 - Human Physiology and Anatomy	4
MSE 2101 - Material Science & Engineering I or MSE 2001 - Struc, Prop, & Proc Mater I	3
BME 3700 - Biomaterials (Study Abroad)	4
Engineering Elective (Study Abroad)	3
STAT 3025Q - Statistical Methods (Calculus Level) (Study Abroad)	3
CHEM 2443 - Organic Chemistry (Study Abroad)	3
2000 - Level ILCS Class (Study Abroad)	3
<b>SENIOR (34)</b>	
Biomedical Engineering Elective	3
Engineering Elective	3
Content Area 1 (World Cultures; not in ILCS)	3
PHIL 1104 - Philosophy & Ethics	3
Content Area 2 (Social Sciences)	3
ILCS 3255W (CLAS Content Area 1 Literature)	3
Biomedical Engineering Elective	3
Engineering Elective	3
2000 - Level ILCS Class	3
BME 3130 - LabVIEW Intermediate for Biomedical Engineers	1
Content Area 4 (Multiculturalism)	3
ILCS 3260W (CLAS Content Area 1 Arts and Content Area 4 International)	3
<b>5th Year (36)</b>	
BME 4900 - Biomedical Engineering Design I	3
BME 3300 - Biochemical Engineering for BME's	3
2000 - Level ILCS Class	3
2000 - Level ILCS Class	3
2000 - Level ILCS Class	3
Content Area 2 (Social Sciences; not same department as in Senior Year)	3
BME 4910 - Biomedical Engineering Design II	3
Engineering Elective	3
2000 - Level ILCS Class	3
2000 - Level ILCS Class	3
2000 - Level ILCS Class	3
Content Area 1 CLAS History	3

<sup>6</sup> Without 3 Years of HS Foreign Language. Study Abroad can be either semester in the junior year. Total Credit Hours: 174

## Bachelor of Science in Engineering in Biomedical Engineering & Spanish<sup>7</sup>

Course	Credits
<b>FRESHMAN (31)</b>	
CHEM 1127 Q - General Chemistry	4
MATH 1131Q - Calculus I	4
CSE 1010 - Introduction to Computing for Engineers	3
ENGL 1010 or 1011 - Seminar in Academic Writing or Seminar in Writing Through Literature	4
ENGR 1000 - Orientation to Engineering	1
CHEM 1128Q - General Chemistry	4
MATH 1132Q - Calculus II	4
BIOL 1107 - Principles of Biology	4
ENGR 1166 - Foundations of Engineering for BMEs	3
<b>SOPHOMORE (33)</b>	
PHYS 1501Q - Physics for Engineers I	4
MATH 2110Q - Multivariable Calculus	4
BME 3150 - Statics & Dynamics for Biomedical Engineers	3
BME 3100 - Physiological Modeling	3
PHYS 1502Q - Physics for Engineers II	4
BME 3120 - LabVIEW Basics for Biomedical Engineers	1
BME 3400 - Biosystem Analysis	4
MATH 2410Q - Elementary Differential Equations	3
ECE 2001W - Electrical Circuits	4
SPAN 1004	3
<b>JUNIOR (31)</b>	
BME 3500 - Biomedical Engineering Measurements	4
BME 3600W - Biomechanics	4
PNB 2264 - Human Physiology and Anatomy	4
MSE 2101 - Material Science & Engineering I or MSE 2001 - Struc, Prop, & Proc Mater I	3
BME 3700 - Biomaterials (Study Abroad)	4
Engineering Elective (Study Abroad)	3
STAT 3025Q - Statistical Methods (Calculus Level) (Study Abroad)	3
CHEM 2443 - Organic Chemistry (Study Abroad)	3
2000 - Level SPAN Class (Study Abroad)	3
<b>SENIOR (34)</b>	
Biomedical Engineering Elective	3
Engineering Elective	3
Content Area 1 (World Cultures; not in SPAN)	3
PHIL 1104 - Philosophy & Ethics	3
Content Area 2 (Social Sciences)	3
SPAN 3232 (CLAS Content Area 1 Literature)	3
Biomedical Engineering Elective	3
Engineering Elective	3
SPAN 3240W or SPAN 4200W	3
BME 3130 - LabVIEW Intermediate for Biomedical Engineers	1
Content Area 4 (Multiculturalism)	3
SPAN 3250 (CLAS Content Area 1 Arts and Content Area 4 International)	3
<b>5th Year (30)</b>	
BME 4900 - Biomedical Engineering Design I	3
BME 3300 - Biochemical Engineering for BME's	3
SPAN Literature Group (Not SPAN 3232)	3
SPAN Literature Group (Not SPAN 3232)	3
Content Area 2 (Social Sciences; not same department as in Senior Year)	3
BME 4910 - Biomedical Engineering Design II	3
Engineering Elective	3
SPAN Literature Group (if Taken SPAN 3240W and Not SPAN 3232) or SPAN Culture Group (if Taken SPAN4200W)	3
SPAN Culture Group	3
Content Area 1 CLAS History	3

<sup>7</sup> With 3 Years of HS Foreign Language. Study Abroad can be either semester in the junior year. Total Credit Hours: 159

## Bachelor of Science in Engineering in Biomedical Engineering & Spanish<sup>8</sup>

Course	Credits
<b>FRESHMAN (37)</b>	
CHEM 1127 Q - General Chemistry	4
MATH 1131Q - Calculus I	4
CSE 1010 - Introduction to Computing for Engineers	3
ENGL 1010 or 1011 - Seminar in Academic Writing or Seminar in Writing Through Literature	4
ENGR 1000 - Orientation to Engineering	1
SPAN 1001	3
CHEM 1128Q - General Chemistry	4
MATH 1132Q - Calculus II	4
BIOL 1107 - Principles of Biology	4
ENGR 1166 - Foundations of Engineering for BMEs	3
SPAN 1002	3
<b>SOPHOMORE (36)</b>	
PHYS 1501Q - Physics for Engineers I	4
MATH 2110Q - Multivariable Calculus	4
BME 3150 - Statics & Dynamics for Biomedical Engineers	3
BME 3100 - Physiological Modeling	3
SPAN 1003	3
PHYS 1502Q - Physics for Engineers II	4
BME 3120 - LabVIEW Basics for Biomedical Engineers	1
BME 3400 - Biosystem Analysis	4
MATH 2410Q - Elementary Differential Equations	3
ECE 2001W - Electrical Circuits	4
SPAN 1004	3
<b>JUNIOR (31)</b>	
BME 3500 - Biomedical Engineering Measurements	4
BME 3600W - Biomechanics	4
PNB 2264 - Human Physiology and Anatomy	4
MSE 2101 - Material Science & Engineering I or MSE 2001 - Struc, Prop, & Proc Mater I	3
BME 3700 - Biomaterials (Study Abroad)	4
Engineering Elective (Study Abroad)	3
STAT 3025Q - Statistical Methods (Calculus Level) (Study Abroad)	3
CHEM 2443 - Organic Chemistry (Study Abroad)	3
2000 - Level SPAN Class (Study Abroad)	3
<b>SENIOR (34)</b>	
Biomedical Engineering Elective	3
Engineering Elective	3
Content Area 1 (World Cultures; not in SPAN)	3
PHIL 1104 - Philosophy & Ethics	3
Content Area 2 (Social Sciences)	3
SPAN 3232 (CLAS Content Area 1 Literature)	3
Biomedical Engineering Elective	3
Engineering Elective	3
SPAN 3240W or SPAN 4200W	3
BME 3130 - LabVIEW Intermediate for Biomedical Engineers	1
Content Area 4 (Multiculturalism)	3
SPAN 3250 (CLAS Content Area 1 Arts and Content Area 4 International)	3
<b>5th Year (30)</b>	
BME 4900 - Biomedical Engineering Design I	3
BME 3300 - Biochemical Engineering for BME's	3
SPAN Literature Group (Not SPAN3232)	3
SPAN Literature Group (Not SPAN 3232)	3
Content Area 2 (Social Sciences; not same department as in Senior Year)	3
BME 4910 - Biomedical Engineering Design II	3
Engineering Elective	3
SPAN Literature Group (if Taken SPAN3240W and Not SPAN 3232) or SPAN Culture Group (if Taken SPAN4200W)	3
SPAN Culture Group	3
Content Area 1 CLAS History	3

<sup>8</sup> Without 3 Years of HS Foreign Language. Study Abroad can be either semester in the junior year. Total Credit Hours: 168