

**Master of Science in Sensor Science and Technology: Non-Thesis option**

Code	Title	Credit Hours
Required Courses:		<b>6</b>
SENS 545	Sensor Science and Technology	3
*SENS 546	Project in Sensor Science and Technology	3
Select a minimum of 12 credits from the following courses		<b>12</b>
CHEM 503	Survey of Analytical Methods	3
CHEM 472	!	1,
CHEM 456	Computational Biochemistry and Drug Design	3
- 2 ! 3,415,	6.0/\$7*+,8\$&7.( ' \$/)%0,	1,
9 : ; <,4=>,	9&?"@*)\$&" ,&A,9&&@, ; 7\$("7(,*"@,B(7. "&+&CO,	1,
9 : ; <,4DE,	<?)%\$)\$&"F, 3 ()*G&+\$/ ' ,*"@,2 (*+). , , , ,	1,
- ;,45>, ,	3 *7. \$"(,H(*%"\$ "C,	1,
BME 525	Intro to Medical Devices, BioMEMS and Microfluidics	3
! - !,>1D,	9?"@* ' (")*+/,&A, ; ( ' \$7&"@?7)&%, : (#\$7(/, , , ,	1,
Select one focus with a minimum of 9 credits from the following electives		<b>9</b>
<u>Focus 1: Sensing Modality (choose three courses)</u>		
BIOL 504	Biochemistry	3,
- 2 !,4E> ,	6%&7(//, I ""*+0)\$7*+,B(7. "&+&CO,	1,
- 2 ! 3,4DJ, ,	6.0/\$7*+, 3 (). &@/,&A, - .%*7)(%\$K*)\$&" , , , ,	1,
- 2 ! 3,4ED, ,	!+(7)%&"\$7/,*"@,L")(%A*7\$"C, , , , ,	1,
- 2 ! 3,4>5, ,	!+(7)%&7. ( ' \$7*+, 3 (). &@/, , , , ,	1,
9 : ; <,4D4, ,	9&&@, 3 \$7%&G\$&+&CO, , , , ,	1,
9 : ; <,4DM, ,	9&&@, I ""*+0/\$/, , , , ,	1,
<u>Focus 2: Sensor Materials (choose three courses)</u>		
- 2 !,45D, ,	8\$& ' *)(%\$*+/, , , , , , , ,	1,
CHEM 455	Advanced Organic Chemistry	3
CHEM 521	Structural Inorganic and Material Chemistry	3
CHEM 542	Polymer Characterization and Analysis	3
! - !,4ME, ,	<*"&@(#\$7(/,*"@,B(7. "&+&CO,, , , , ,	1,
3 3 I !,44>, ,	!+(7N, 3 *CN,OP)\$7*+,6%&P,&A, 3 )%+, , , , ,	1,
<u>9&amp;7?/,1Q, ; ' *%); : ("/&amp;%, : (#\$7(,Rchoose three courses)</u>		
- ;,4MM, ,	: ((P,H(*%"\$ "C, , , , , , , ,	1,
! - !,>=4, ,	I ""*+0/\$/,*"@, : (/ \$" ,&A,L")(C%*)(@, -\$7?\$/), , , , ,	1,
! - !,4ME, ,	<*"&@(#\$7(/,*"@,B(7. "&+&CO,, , , , ,	1,
LB 3 : ,4E1, ,	OP("S ; &?%7(,6%&C%* ' \$"C, , , , , , , ,	1,
LB 3 B,4J1, ,	L")%&@?7)\$&" ,& , ; ' *%); ,B(7. "&+&C\$(/T! ' G(@@(@, ; 0/)( ' / ,	1,
<b>Additional requirements</b>		<b>5</b>

\*Select a minimum of 3 credit hours from the Program Electives **3**

L6 3 3 ,4DD, , - &")(U)TL")%&@?7)\$&" ,\*"@,6%&)(7)\$"C,L6, , , 1,

L<B 3 ,4EE, , L"@?/)%\$\*+,H(\*@(%/. \$P, , , , , 1,

; -L,4EE, , 6%&V(7), 3 \*"\*C( ' ("), , , , , 1,

9 : ; <, >=D, , W ; ,9&&@, ; \*A()0,X(C?+\*)\$&" ; ; 0/)( ' /,, , , 1,

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9%((,(+(7)\$#(/,, , , , , , , , , !,

**Minimum degree credits required: 32**

\* For thesis option, SENS 546 and Program Electives can be replaced by BME 591, CHEM 591, CS 591, ECE 591, FDSN 591, or ITM 591.