

## APPLICATION/APPROVAL FORM FOR A CERTIFICATE IN BIOLOGICAL, MEDICAL, OR BIOLOGICAL & MEDICAL PHYSICS

*Directions: This form is to be filled out by the student in consultation with a representative of the Biological or Medical Physics Committee*

\_\_\_\_\_  
Last Name                                      First Name                                      Middle                                      Student ID Number                                      Class

\_\_\_\_\_  
Box # Local Address                                      Local Phone Number                                      Home Address

\_\_\_\_\_  
Email Address                                      Student's Major                                      BA or BS                                      Second Major                                      BA or BS                                      Minor(s)

**CHECK ONE:**     *MEDICAL PHYSICS*     *BIOLOGICAL PHYSICS*     *BIOLOGICAL & MEDICAL PHYSICS*

<u>Course Title, Department, &amp; Number</u>	<u>Semester</u>	<u>Grade</u>	<u>Course Title, Department, &amp; Number</u>	<u>Semester</u>	<u>Grade</u>
<b>CLASSICAL MECHANICS:</b>			<b>BIOLOGY:</b>		
PHY 235	_____	_____	BIO 110 or 111: Elem. Bio. I or II	_____	_____
			or		
<b>QUANTUM MECHANICS:</b>			BIO 121: Elementary Biology	_____	_____
PHY 237	_____	_____			
<b>ADDITIONAL ADV. PHYSICS:</b>			<b>CHEMISTRY:</b>		
PHY 217 or 218: E&M I or II	_____	_____	CHM 131: Chem. Concepts I	_____	_____
or			or		
OPT/PHY 262: EM Theory	_____	_____	CHM 132: Chem. Concepts II <sup>1</sup>	_____	_____
or			or		
PHY227: Thermo & Stat. Mech	_____	_____	CHM 171Q: Quest Organic Chem	_____	_____
			or		
<b>ADVANCED MATHEMATICS:</b>			CHM 232: Molecular Spectroscopy	_____	_____
MTH 281: Fourier Series	_____	_____	or		
or			CHM 252: Physical Chemistry II	_____	_____
MTH 282: Complex Variables	_____	_____			
or			<b>MEDICAL PHYSICS:</b>		
MTH/OPT 287: Math. Methods	_____	_____	PHY 252: Biomedical Ultrasound	_____	_____
			or		
<b>PHY MINOR &amp; MAJOR:</b>			PHY 393: Senior Project	_____	_____
Minor PAS: <input type="checkbox"/>			or		
or			PHY 513: MRI Spins to Brains	_____	_____
Minor PHY: <input type="checkbox"/>			or		
or			Other approved elective course	_____	_____
BA PAS: <input type="checkbox"/>					
or			<b>BIOLOGICAL PHYSICS:</b>		
BA PHY: <input type="checkbox"/>			PHY 253: Biological physics	_____	_____
or			or		
BS PAS: <input type="checkbox"/>			PHY 393: Senior Project	_____	_____
or			or		
BS PHY: <input type="checkbox"/>			Other approved elective course	_____	_____

**Biological Physics, Medical Physics, or Biological Physics & Medical Physics Certificate Committee:** Professor T. Foster (Chair), Professor Y. Gao, Professor J. Zhong, & Professor R. Knox

**NOTE:** Awarding of the Certificate is contingent upon satisfactory completion of the requirements for the BS, the BA, or the minor in Physics or Physics and Astronomy. In addition, a grade of C+ or better is required in the Biology and Chemistry courses and the advanced elective.

<sup>1</sup> Students with scores of 4 or 5 in AP CHEM are urged to take CHM 132.

Janet Fogg signature for validity of grades: \_\_\_\_\_ Committee Faculty Member signature \_\_\_\_\_