Physics
UNIVERSITY OF COLORADO **BOULDER**

Applied Physics Application: Biophysics

Student name:_____ Year of Grad Program Entry:_____
Date:_____
Please indicate all of your planned courses for this track:

1) Comps 1 Required Courses (12 credits):
   - ☐ PHYS 5250 - Quantum Mechanics 1
   - ☐ PHYS 7310 - Electromagnetic Theory 1
   - ☐ PHYS 7230 - Statistical Mechanics

   One more from this list *(More can be taken as electives.)*
   - ☐ BCHM 5770 - Fundamentals of Biochemistry 1
   - ☐ BCHM 5771 - Advanced General Biochemistry 1
   - ☐ BCHM 5780 - Fundamentals of Biochemistry 2
   - ☐ BCHM 5781 - Advanced General Biochemistry 2
   - ☐ MCDB 5312 - Quantitative Optical Imaging
   - ☐ PHYS 5070 - Computational Physics
   - ☐ PHYS 5210 - Theoretical Mechanics
   - ☐ PHYS 5260 - Quantum Mechanics 2
   - ☐ PHYS 7320 - Electromagnetic Theory 2

2) Other Required Courses (3 credits):
   One from this list *(More can be taken as electives.)*
   - ☐ PHYS 5550 - Cells, Molecules and Tissues: A Biophysical Approach
   - ☐ PHYS 5560 - Introduction to Biophysics

3) Elective courses to bring total to 30 credits: *Note 18/30 of your credit hours must be in PHYS courses and at least 6/30 must be outside of PHYS. 3 credit hours can be outside of this list.*
   - ☐ Any courses in the above lists List here:_____
   - ☐ PHYS 5030 - Math Methods 1
   - ☐ PHYS 5070 - Computational Physics
   - ☐ PHYS 5160 - Fund. of Optics and Lasers
   - ☐ PHYS 7430 - Soft Condensed Matter Physics
   - ☐ GRAD 5000 - Responsible Conduct in Research (1 cred)
   - ☐ EBIO 6100 - Seminar in Environmental Biology (2 cred)
   - ☐ BCHM 5400 - Core Concepts in Physical Chemistry for Biochemists
   - ☐ BCHM 5491 - Modern Biophysical Methods
   - ☐ BCHM 5611 - Principles of Biochemistry
   - ☐ BCHM 5661 - Advances in Molecular Biophysics
   - ☐ BCHM 5740 - Biochemistry of Gene Transmission, Expression and Regulation
   - ☐ BCHM 6601 - Biochemistry Seminar (1 credit; can be repeated)
   - ☐ CHEM 5261 - Organic Materials: Structures & Functions
   - ☐ CHEM 5561 - Advances in Molecular Biophysics
   - ☐ CHEM 5801 - Advanced Signal Transduction
   - ☐ CHEM 7311 - Selected Topics in Organic Materials
   - ☐ CHEN 5150 - Biomolecular Kinetics, Transport, and Thermodynamics
   - ☐ CHEN 5450 - Polymer Chemistry
   - ☐ CHEN 5805 - Biological Interactions to Biomaterials
   - ☐ MCDB 5520 - Bioinformatics and Genomics
   - ☐ MCDB 5621 - Genome Databases: Mining and Management
   - ☐ MCEN 5021 - Introduction to Fluid Dynamics
   - ☐ MCEN 5133 - Biomechanics
   - ☐ MCEN 6184 - Structure & Properties of Polymers
   - ☐ MSEN 5919 - Membranes
   - ☐ ECEN 5341 - Bioelectromagnetics
   - ☐ CSCI 5352 - Network Analysis and Modeling
   - ☐ CSCI 5423 - Biologically-inspired Multi-Agent Systems
   - ☐ CSCI 7000 - Current Topics in Computer Science
   - ☐ STAT 5000 - Stat. Meth. and Application I
   - ☐ STAT 5010 - Stat. Meth. and Application II
   - ☐ PSYC 5771 - Bayesian Data Analysis
   - ☐ 3 credit hours can be outside of this list. List here:_____

Any changes to the above requirements are to be approved by the Track Coordinator and Physics Assoc. Chair for Graduate Studies on the next page.

Are there any exceptions to track requirements? ☐ Yes ☐ No

Exceptions to the track requirements:

Signatures are **only** required if exceptions are listed above.

Track Coordinator Name: _____

Signature_____ Date: _____

Grad Chair Name: _____

Signature_____ Date: _____

Please submit the completed form to the **Graduate Program Assistant**.