DOCTORAL DEGREE REQUIREMENTS

General policies for all University of Oklahoma doctoral programs are available in the Graduate College Bulletin.

DOCTOR of PHILOSOPHY

MAJOR: Cellular and Behavioral Neurobiology: Aerospace and Mechanical Engineering

Program effective Summer 2007

COURSEWORK REQUIREMENTS

The program requires satisfactory completion of at least 42 course credit hours beyond the baccalaureate degree for a total of 90 credit hours.

A maximum of 9 credit hours of Special Projects, Guided Individual Studies, or other non-competitively graded courses (including 6 credit hours of MS thesis) may be included.

Students may include up to 42 credit hours from previous graduate work as follows:

- All of a M.S. degree up to 30 hours but including no more than 6 thesis hours
- All of a M.S. non-thesis degree up to 36 hours
- Up to 12 hours of post-master’s work

Specific Course Requirements

- BIOL 5833 Neurobiology ................................................................. 3 hours
- BIOL 5871 Current Topics in Neurobiology ........................................... 1 hour
  Including 2 presentations
- AME 5990 Independent Study .........................................................6-9 hours
  2-3 lab rotations
- Advanced engineering graduate courses at the 5000-level or higher ........................................ 24+ hours
  As determined by the student’s doctoral advisory conference.
- Graduate-level math-related coursework............................................. 3+ hours
- Graduate-level math-related or science coursework.................................... 3+ hours
- Additional coursework as needed to reach 42 hours ....................................Variable

Students enrolled in the thermal science program are required to take the following:

- AME 5333 Thermodynamics and Combustion ..................................... 3 hours
- AME 5803 Principles of Heat Transfer ................................................ 3 hours
- AME 5973 Computational Heat and Fluid Flow ........................................ 3 hours

Total ............................................................................................................. 42+ hours

Dissertation Research

- AME 6980 Research for Doctoral Dissertation ......................................42+ hours
  42 hours minimum

- TOTAL ...................................................................................................... 90 hours