

DOCTORAL DEGREE REQUIREMENTS

General policies for all University of Oklahoma doctoral programs are available in the [Graduate College Bulletin](#).

DOCTOR of PHILOSOPHY

D145

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 Study6-9 hours
2-3 lab rotations
- Advanced engineering graduate courses at the 5000-level or higher24+ 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 hoursVariable

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