Advanced Biomedical Science (ABS)

Advanced Biomedical Science (ABS). In order to graduate, students are required to have completed the Advanced Biomedical Science requirement. ABS requirement encompasses two phases; 1.) participating in meaningful ABS Research or Teaching Biomedical Science in an approved setting, and 2.) learning cutting edge applications of biomedical science to clinical practice in the 4th year ABS Course.

ABS Research/Teaching. To fulfill the ABS Research or Teaching requirement, students may choose one of the following options. All options satisfy the ABS requirement. The 8 week research option (option III) is eligible for additional 4 weeks credit toward elective requirements:

I. 4 weeks of Teaching in the medical school curriculum.
II. 4 weeks of a Biomedical Science Tutorial.
III. 8 weeks or more (must be continuous) of Biomedical Science Research in any year, 1 through 4.

Option I. Teaching. Involves teaching in any of the following: the Anatomy lab; a PBL classroom; or a Pathology lab, as well as attendance at a series of teaching seminars. In addition, written assignments are required. Approval by Dr. Capello is needed. (Note: Further information may be found by clicking on the following link: http://wo-pub2.med.cornell.edu/cgi-bin/WebObjects/Electives.woa/2/wo/1bmLwpOZBhY7JjZ0fkVepg/0.19)

Option II. Tutorial. Tutoring is by a member of the medical college faculty, and will follow a format agreed upon by the tutor and student. Students select a subject in which they desire advanced training, and request permission to be tutored from a faculty member expert in the subject. Tutorials are given for a minimum of 4 consecutive weeks. They often include extensive readings, discussions, and hands-on practice in clinical or scholarly pursuits germane to the subject matter. Approval by Dr. Pierini required.

Option III. Research (minimum 8 weeks, must be continuous). Biomedical research conducted over the course of medical school satisfies the ABS requirement. This includes research done during medical school or during the summer between first and second year. Research must be consecutive, and must be at least 8 weeks in length to qualify. Students who take a year long fellowship also qualify under this option. Biomedical research is broadly defined, including hypothesis driven researches in clinical medicine, community health, epidemiology, medical ethics and basic molecular science. This option will meet both the ABS requirement and may be applied as 4 credits toward the 16 elective credits that are required for graduation. Approval by Dr. Pierini required.

ABS Course (Today's Science for Tomorrow's Medicine). In addition to the research or teaching options required, MD students are required to participate in the ABS Course
(Today’s Science for Tomorrow’s Medicine) held for 2 weeks in the spring term of the 4\textsuperscript{th} year. Completion of activity I, II, III or IV does not exempt the student from the ABS Course. Verification of course completion by Dr. Reidenberg and Dr. Cunningham-Rundles required.

**Exemptions:**

MD/PhD's are exempt from the ABS Requirement (both the ABS course and the research/teaching requirement.)

Students who hold a PhD in the biomedical sciences are also exempt from the ABS requirement (both the ABS course and the ABS research/teaching requirement.) If a student holds a PhD in a non-biomedical science area, \textit{e.g.} Physics, Mathematics, Education, Social Science, the student must fulfill all aspects of the ABS requirement.

All exemptions require the approval of the Director of the Office of Medical Student Research (Dr. Pierini).