

CMB track Course and Research Credit Requirements (Rutgers)

Minimum 24 course credits, up to 30 (2 rotations + **6-8 courses**), Minimum 30 research credits, up to 36 (Research credits should be taken under the dissertation advisor) **Total credit requirement (course credits + research credits): 60**

Required Courses (5 courses)

- Advanced Problem in Biology (26:120:509 and 510)
- Molecular Biology of Eukaryotes (26:120:515)
- Cell, Molecular and Development Biology (26:120:524)
- Topics in Cell Biology: Biochemistry of Eukaryotes (26:120:526)
- Introduction to Biostatistic (NJIT MATH 663) or Approaches in Quantitative Analysis for Life Sciences (48:120:615 or NJIT MATH 615))
- Scientific Reasoning and Research Design in Biomedical Sciences (TBD)

Suggested Electives (take 1-3 courses)

- Cell Biology: Methods and Applications
- Cellular Neurobiology
- Genetics of Stem Cells
- Growth Factors in Nervous system
- RBHS Biomedical Ph.D Program courses (by approval)
- Topics in Biology: Mol Mech of Neural Dev
- Cellular Neurophysiology (NJIT)
- Cellular and System Neuroscience (NJIT)
- Appr in Quan Analysis for Life Sciences (NJIT)

Suggested Curriculum in the 1st and the 2nd Year

	1st year Fall	1st year Spring	2nd year Fall	2nd year Spring
Course 1	<ul style="list-style-type: none"> • Molecular Biology of Eukaryotes 	<ul style="list-style-type: none"> • Cell, Mol, Dev Biology 	<ul style="list-style-type: none"> • Research Design in Biomedical Science 	<ul style="list-style-type: none"> • Research in Biology
Course 2	<ul style="list-style-type: none"> • Topics in Cell Biology: Biochemistry • Cell Biology: Methods and Applications • Cellular Neurobiology 	<ul style="list-style-type: none"> • Genetics of Stem Cells • Cell Biology: Methods and Applications • Other electives (NJMS or NJIT) 	<ul style="list-style-type: none"> • Introduction to Biostatistics (NJIT) 	<ul style="list-style-type: none"> • Genetics of Stem Cells • Other electives (NJMS or NJIT)
Course 3	<ul style="list-style-type: none"> • <i>Advanced Problem in Biology</i> 	<ul style="list-style-type: none"> • <i>Advanced Problem in Biology</i> 	<ul style="list-style-type: none"> • Growth Factors in Nervous system or Mol Mech of Neural Dev • Cellular Neurobiology • Research in Biology 	
Other available elective courses	<ul style="list-style-type: none"> • Cellular Neurophysiology • NJMS courses (by approval) 	<ul style="list-style-type: none"> • Appr in Quan Analysis for Life Science • Cellular and System Neuroscience • NJMS courses (by approval) 	<ul style="list-style-type: none"> • Intro to Comp Neurosci • Cellular Neurophysiology • NJMS courses (by approval) 	<ul style="list-style-type: none"> • Cellular and System Neuroscience • Appr in Quan Analysis for Life Science • NJMS courses (by approval)