



## Medical Scientist Training Program (MSTP) Supplemental Curriculum Specifications

### First Year MSTP Students – total of at least\* 15 graded credits:

#### Autumn Quarter – 3 graded credits

##### **Weeks 1-5**

Conjoint 531:<sup>ALT</sup> Signaling Mechanisms in Excitable Cells – 1.5 graded credits

##### **Weeks 6-10**

Conjoint 532:<sup>REC</sup> *Signal Transduction from the Cell Membrane to the Nucleus (PHCOL)* – 1.5 graded credits  
or

Conjoint 537:<sup>REC</sup> *Mechanism of Transcriptional Regulation (BIOCHEM)* – 1.5 graded credits

Conjoint 538:<sup>ALT, CIE</sup> *Genetic Instability and Cancer (IMM)* – 1.5 graded credits

##### **Weeks 1-10**

Immunology 550: *Selected Topics in Immunology (Research in Progress)* – 1 ungraded credit

Immunology 551-579: *Research Conferences & Lab Meetings* – 1 ungraded credit

Immunology 573: *Immunology Seminar Series* – 1 ungraded credit

Immunology 600: *Independent Research* – variable ungraded credits

#### Winter Quarter – 7 graded credits

##### **Weeks 1-5**

Conjoint 514A:<sup>REC, CIE</sup> Molecular Medicine (MolMed) – 1.5 graded credits  
or

Conjoint 542:<sup>APP</sup> *Development (B/STR)* – 1.5 graded credits  
or

Conjoint 544:<sup>APP</sup> *Protein Structure, Modification and Regulation (MCB)* – 1.5 graded credits  
or

Conjoint 526:<sup>APP</sup> *Introduction to Systems Biology and Quantitative Approaches to Biomedical Sciences (Biochem)* – 1.5 graded credit

##### **Weeks 6-10**

Conjoint 514B:<sup>REC, CIE</sup> Molecular Medicine (MolMed) – 1.5 graded credits

##### **Weeks 1-10**

Immunology 532: *Advanced Immunology* – 4 graded credits

Immunology 550: *Selected Topics in Immunology (Research in Progress)* – 1 ungraded credit

Immunology 573: *Immunology Seminar Series* – 1 ungraded credit

Immunology 551-579: *Research Conferences & Lab Meetings* – 1 ungraded credit

Immunology 600: *Independent Research* – variable ungraded credits

##### **PLUS, if appropriate – add**

Elective(s) of 2-3 graded credits

\* **NOTE:** MSTP Students must take 3 graded elective credits during the 1st or 2nd year in order to have 18 graded credits before the General Exam in Year 2.

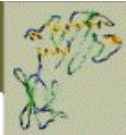
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<sup>REC</sup> The RECOMMENDED course for this 5-week segment.

<sup>APP</sup> An APPROVED course as a choice for this 5-week segment.

<sup>ALT</sup> An ALTERNATE course for this 5-week segment.

<sup>CIE</sup> Meets the criteria of a CANCER IMMUNOLOGY ELECTIVE (CIE).



### Spring Quarter – 5 or 5.5 graded credits

#### **Weeks 1-5**

Conjoint 541: <sup>REC</sup> *Cellular Processes (BIOCH)* – 1.5 graded credits

or

Conjoint 547: <sup>ALT</sup> *Molecular Evolution of Viral-Host Interactions (MICRO)* – 1.5 graded credits

or

Immunology 533: <sup>REC, CIE</sup> **Host Defense to Cancer** – 2 graded credits (Odd Years)

or Immunology 535: <sup>REC, CIE</sup> **Host Defense to Infection** – 2 graded credits (Even Years)

#### **Weeks 6-10**

Conjoint 533: <sup>ALT</sup> *The Dynamic Chromosome (BIOC)* – 1.5 graded credits

or

Conjoint 539: <sup>REC, CIE</sup> *Biological Basis of Neoplasia (MCB)* – 1.5 graded credits

#### **Weeks 1-10**

Immunology 534B: *Central Issues in Immunology* - 2 graded credits

Immunology 550: *Selected Topics in Immunology (Research in Progress)* – 1 ungraded credit

Immunology 573: *Immunology Seminar Series* – 1 ungraded credit

Immunology 551-579: *Research Conferences & Lab Meetings* – 1 ungraded credit

Immunology 600: *Independent Research (pre-General Exam)* – variable ungraded credits

Prepare to select Qualifying Exam topic

### Summer Quarter

Immunology 551-579: *Research Conferences & Lab Meetings* – 1 ungraded credit

Immunology 600: (A,W,Sp,S) *Independent Research (pre-General Exam)* – variable ungraded credits

**Biomedical Research Integrity Series** – Beginning with the first summer quarter, all students are required to attend lectures offered as part of a Summer Quarter series on *Biomedical Research Integrity*, and will be informed of these lectures as they are scheduled. The Department of Immunology requires Immunology graduate students to attend all offered lectures and at least one discussion workshop in the *Biomedical Research Integrity Series* every other year.

### Second Year MSTP Students:

Immunology 550: *Selected Topics in Immunology (Research in Progress)* – 1 ungraded credit

Immunology 573: (A, W, Sp) *Immunology Seminar Series* – 1 ungraded credit

Immunology 551-579: (A,W,Sp,S) *Research Conferences & Lab Meetings* – 1 ungraded credit

Immunology 600: (A,W,Sp,S) *Independent Research (pre-General Exam)* – variable ungraded credits

or

Immunology 800: (A,W,Sp,S) *Doctoral Dissertation (post-General Exam)*– variable ungraded credits

**PLUS, if appropriate – add**

### Winter Quarter

*Teaching Assistant for HuBio 523 Introduction to Immunology for Medical Students*

### Third Year and Beyond:

Immunology 550: *Selected Topics in Immunology (Research in Progress)* – 1 ungraded credit

Immunology 573: (A,W,Sp) *Immunology Seminar Series* – 1 ungraded credit

Immunology 551-579: (A,W,Sp,S) *Research Conferences & Lab Meetings* – 1 ungraded credit

Immunology 800: (A,W,Sp,S) *Doctoral Dissertation (post-General Exam)*– variable ungraded credits

**PLUS, if appropriate – add**

### Winter Quarter

*Teaching Assistant for HuBio 523 Introduction to Immunology for Medical Students*

### Summer Quarter

**Biomedical Research Integrity Series** – Beginning with the first summer quarter, all students are required to attend lectures offered as part of a Summer Quarter series on *Biomedical Research Integrity*, and will be informed of these lectures as they are scheduled. The Department of Immunology requires Immunology graduate students to attend all offered lectures and at least one discussion workshop in the *Biomedical Research Integrity Series* every other year.