This Guide will cover the following information about Translational Science (Tsel) Selectives:

1. Translational Science Selectives Listing for COM 2018
2. How They Work
3. The Rules
4. Guidelines for the Papers

1. Translational Science Selectives - Listing for COM 2018
The Translational Science Selectives (aka T sels) are designed to re-acquaint you with some of the important science underlying your clinical practice and to give you practice in reading and discussing that literature prior to residency. We assume that most of you will choose a selective related to the field you are going into (although you are not required to do this) and we think these selectives will help you stand out among your residency classmates.

The current list of electives that will fulfill the requirement, divided by department, is listed below. Please note that Clinical Toxicology is the only EM rotation that fulfills this requirement.

ANES T4012 Pain Management
DERM T4022 Dermatology
EMED T4029 Clinical Toxicology (only offered in January)
MEDI T4151 Allergy-Immunology
MEDI T4102 Cardiology
MEDI T4225 EKG reading (2 weeks, classroom)
MEDI T4120 Gastroenterology (Digestive Diseases)
MEDI T4141 Hematology/Oncology
MEDI T4172 Nephrology
MEDI T4184 Pulmonary Medicine
NERU 4208 Tsel Neuroscience pathway selective (completely asynchronous, 2 wks credit)
NERU 4207 Tsel Epilepsy (2 weeks)
NERU T4211 Neuro-psych epidemiology (classroom course, 2 wks credit)
OBGY T4315 Reproductive Endocrinology (science aspect requires approval from course director)
OBGY T4319 Urogynecology
OTOL T4358 Otolaryngology (2 wk Adult)
2. How They Work

You will attend the elective you've chosen, participate in the clinical or other work, attend the conferences and didactic activities as usual, and receive a grade (H, HP, P, F) from your clinical supervisor for that portion of the elective. In addition, you will meet with a designated science supervisor at the beginning of the rotation, choose a topic to study (generally from an approved list), and produce a scholarly product, either a paper or less commonly a presentation, by a deadline toward the end of the rotation. The supervising faculty member will give you feedback on your paper or presentation. The scholarly aspect of the selective will be graded pass/fail.

There are a few exceptions to this model for your class:

- **Clinical Neuroscience**, Course Director and contact person – Lisa Merlin 270-3957
  Asynchronous. Students will participate in the Department of Neurology Mystery Case of the Month. A case is posted at the beginning of the month (September through May) and a written case analysis (approximately one page) is due by the end of the month.

For students already participating in the Clinical Neurosciences Pathway the
requirements for two weeks selective credit in addition to Pathway completion are eight cases completed during fourth year and submission of three original cases with the suggested optimal case analysis.

For students who have not participated in the Pathway, the requirement for two weeks of selective credit is eight cases completed and submission of one original case with its suggested optimal analysis.

This selective does not require any classroom time or block time commitment, nor is there any clinical work.

- **Neuro epidemiology**, Course director and contact person – Deborah Gustafson 270-1581

Offered once in April, 2 wks

NeuroEpidemiology is the study of the occurrence of neurological disorders in human populations. We will overview risk and protective factors for common neurological disorders such as dementia and Alzheimer’s disease, stroke, epilepsy, Parkinson’s Disease, movement disorders, multiple sclerosis, peripheral neuropathies, traumatic brain injury and migraine/headache. Understanding the epidemiology of neurological disorders requires knowledge of general epidemiology, study design, and biostatistics. In addition, a number of subdisciplines of Epidemiology, such as Molecular and Genetic, Nutritional, Chronic Disease, Infectious Disease and Pharmaco Epidemiology are important. Major challenges to Neuroepidemiology studies include fluctuating neurological and psychiatric symptoms and signs over time, the episodic occurrence of some disorders, and progressive courses that may be modified by co-morbid conditions and events. Thus, some neurological disorders are difficult to track in populations and may vary among populations. Physician versus algorithm-based assessments and diagnoses will be discussed. In addition, both central and peripheral metabolism, genetic susceptibility, cultural variations, and how they interact in neurological health, are keys to understanding etiology of brain-based disorders. Finally, the ultimate goal of Epidemiology and Public Health is disease prevention. Ideas for prevention, especially within the local community, will be discussed.

This course will include lectures, directed readings, an oral presentation, and group assignments to foster critical thinking about the discipline of Neuroepidemiology. Examples from the local community and patient population will be highlighted.
This selective is entirely in a classroom setting – there is no required clinical work.

- **Human Immunology**, 2 wks

Course director and contact person Maya Nowakowski 270-2749

This classroom course teaches the principles, methods, and interpretation of diagnostic immunology tests. Through visits to pertinent labs, students acquire hands on knowledge of diagnostic immunology instrumentation and laboratory assays, e.g. SPEP, flow cytometry, tissue typing, Western blots.

This selective is entirely in a classroom or lab setting – there is no required clinical work.

3. **The Rules**

- **Waivers** of this requirement: students enrolled in our MD/PhD program or with a completed PhD in a scientific discipline from another institution do not have to do a science selective. They will do 20 weeks of unrestricted electives instead of 16 weeks of elective and 4 weeks of selective.

- **Due dates**: papers are due on the second Wednesday of a 2-week experience and on the third Thursday of a 4-week experience. Papers must be handed in both to the science supervisor and centrally to the Education office (we will set up a drop box or similar mechanism for these submissions). Presentations, research proposals, and assignments other than papers are due as determined by the course director. These must also be submitted to the Education Office when completed and no later than the last day of the rotation.

No submission to the Education office by the end of the rotation = no credit for the selective, no exceptions

- **Plagiarism**: papers will be run through the Turnitin software. We will be using a threshold of 20% similarity to published work as our criterion for a satisfactory submission.

- **Late or unsatisfactory work**: For satisfactory completion, written work must be submitted on time, below 20% similarity to published work, and deemed satisfactory by the supervising faculty member.
Late submissions (after the due date but before the end of the rotation) above 20% similarity will result in a grade of Fail.
Late submissions (after the due date but before the end of the rotation) below 20% similarity may be satisfactory if they can reasonably be reviewed with the supervising faculty member before the end of the rotation. Faculty are not obliged to make unreasonable scheduling accommodations (canceling other professional obligations, scheduling outside 10AM - 4PM weekdays the last week of the rotation) nor are they obliged to read anything submitted after the end of the rotation.

On-time submissions above 20% similarity can be re-written if possible within the time constraints. If not possible, you will not receive credit for the selective but will be able to receive credit for the time spent in the clinical elective.

On-time, below 20% similarity, but still unsatisfactory submissions (e.g. incoherent, inadequate science content) can also be re-written if possible within the time constraints. If not possible, as above, you will not receive credit for the selective but will be able to receive credit for the time spent in the clinical elective.

➤ **Meeting with your supervisor:** as soon as you have handed in your paper, make an appointment to meet with your supervisor before the end of the rotation. If you are unable to set an appointment, notify the Office of Education by either the second Thursday (2 week rotations) or the fourth Wednesday (4 week rotations) so we can help you. No meeting with a supervisor = no credit for the selective.

➤ **Grades:** the clinical portion of the selective will be graded as usual, H, HP, P. The Tsel component will be graded pass/fail.

➤ **Dropping the science selective:** if you sign up for a selective and have a change of heart after you start working on your paper, you can withdraw from the science aspect without having to withdraw from the clinical elective aspect so you will not lose the time. You must, of course, sign up for a new selective in a subsequent rotation.

➤ **Good news:** selectives do not count against your total months within a particular field.
You should meet with the designated science supervisor as soon as possible after starting the rotation. Usually, they will have a list of topics for you to choose from for your subject area. We are using this method to save you time. It requires a pretty good knowledge of the literature in the field to choose a topic of just the right scope to allow you to write a paper of the required length without being overwhelmed.

Contact people in the Office of Education for selectives: Dr. Jeanne Macrae, Ms. Taryn Toval, BSB 1-86 or by Downstate email. Jeanne.macrae@downstate.edu; taryn.toval@downstate.edu

4. Guidelines for the Papers
For a 2-week experience papers should be about 4-5 pages. For a 4-week experience papers should be about 8-10 pages. Yes, single-spaced, 1 inch margins, and fonts that normal humans are accustomed to seeing.

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