





INTERNAL MEDICINE REQUIRED CLERKSHIP
MEDI703 COURSE SYLLABUS
12.75 Credit Hours

The Mission of the College of Medicine and Life Sciences is to improve the human condition. We do this by providing a world-class education for you (the next generation of physician and scientists), by creating knowledge that is translated into cutting edge clinical practice and research.

CONTACT INFORMATION

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<p><u>Clerkship Office</u></p> <p>Location: UTMC Hospital, Room 0245A (Basement) Phone: (419) 383-5022 Hours: 7:00 a.m. – 3:30 p.m. Monday - Friday</p>	

COURSE DESCRIPTION

The practice of Internal Medicine (IM) is an in-depth study of the health matters affecting adult patients. This clerkship, which is required for all third-year medical students, places emphasis on the acquisition of highly honed skills in medical history taking and physical examination. Students also create lists and develop plans to direct the investigation of patients' medical disorders. The goal of this course is to provide all medical students with a broad-based educational experience in inpatient and outpatient medicine so that they will:

- Develop skills in the evaluation and basic management of patients
- Acquire the knowledge necessary for the competent practice of medicine in a supervised setting as

measured by acquiring a minimum score on the NBME IM Subject Exam

- Acquire excellent interpersonal and professional communication skills

This course follows the Third-Year Medical Student Academic Calendar, for key dates please follow this link: <https://www.utoledo.edu/med/md/curriculum/curriculum3/dates.html>

PRE-REQUISITES

Students must first successfully complete the first two years of medical school. Students cannot have more than one fail, incomplete or defer on their record from other required clerkships.

ROTATION OVERVIEW

The required Medicine rotation is 8 weeks in length. Students will spend a total of 6 weeks at UTMC, ProMedica Toledo Hospital (PTH), Riverside (Columbus, OH), St. Joe's (Ypsilanti, MI) or Akron General (Akron, OH) and 2 weeks either at UTMC, a local ambulatory site or an Area Health Education Center (AHEC).

COURSE OBJECTIVES, Including Core Competencies, Instructional Methods & Outcome Measures

Core Comp	Clerkship Objective <i>At the end of the IM Required Clerkship the student will be able to:</i>	Instructional Method	Outcome Measure
PC-1	Demonstrate an ability to obtain a complete medical history	Patient care in inpatient and outpatient settings Teaching rounds, inpatient rounds Faculty observed history & physical	Clinical Competency Evaluation OSCE Case Report (written assignment) Formative feedback on faculty observed history & physical
PC-1	Demonstrate an ability to perform a complete or focused physical examination as appropriate and distinguish normal from abnormal findings	Patient care in inpatient and outpatient settings Faculty observed history & physical session Teaching rounds, inpatient rounds Harvey simulator session	Clinical Competency Evaluation OSCE Formative feedback on faculty observed history & physical
MK-1, MK-4, MK-6, MK-7; PC-1, PC-6, PC-7; IPC-1, IPC-2, IPC-3,	Synthesize information to develop an appropriate reasonable differential diagnosis and present information in a succinct and organized manner	Patient care in inpatient and outpatient settings Faculty observed history & physical Presentation at Chairman Rounds Presentation at Morning Report	Clinical Competency Evaluation NBME Subject Exam OSCE Formative feedback on faculty observed history & physical

MK-1, MK-4, MK-6, MK-7; PC-1, PC-6, PC-7	Demonstrate an ability to assess the patient's chief complaint and develop an appropriate management plan	Patient care in inpatient and outpatient settings Presentation at Chairman Rounds Presentation at Morning Report	Clinical Competency Evaluations
MK-1, MK-4, MK-6, MK-7; PC-1	Perform a complete H & P for new patient encounters and document the results in an organized and succinct manner.	Patient care in inpatient and outpatient settings	Clinical Competency Evaluations
MK-1, MK-4, MK-6, MK-7; PC-1, PC-6, PC-7	Regularly re-evaluate patients' status including appropriate interpretation of history and physical exam findings	Patient care in inpatient and outpatient settings	Clinical Competency Evaluations
MK-1, MK-4, MK-6, MK-7; PC-1, PC-6, PC-7	Accurately prepare case reports based on patient encounters and research into the primary diagnoses	Patient care in outpatient settings	Clinical Competency Evaluations Case Reports on Ambulatory assignment (written assignment)
PC-6, PC-7	Demonstrate an ability to utilize and interpret laboratory and radiographic tests used in diagnosing common disease	Patient care in inpatient and outpatient settings Lab Medicine experience	Clinical Competency Evaluations NBME Subject Exam
MK-6; PBL-2, PC-6	Describe the different approaches to pain management.	Patient care in inpatient and outpatient settings Chairman Rounds & Student Morning Report	Clinical Competency Evaluations
MK-1, MK-4, MK-6, MK-7; PC-8	Recognize and manage common medical emergencies	Patient care in inpatient and outpatient settings	Clinical Competency Evaluations NBME Subject Exam
PC-2, MK-1, MK-2, MK-3,; PB-1	Identify ethical problems which arise in patient treatment and care	Patient care in inpatient and outpatient settings Ethics Conference	Ethics Conference participation
PC-2, MK-1, MK-2, MK-32	Use ethical principles to reach a resolution in a presented case	Patient care in inpatient and outpatient settings Ethics Conference	Ethics Conference participation
PC-2, MK-1, MK-2, MK-3; PB-1, PC-6; IPC-3	Recognize how race, culture and/or spirituality may influence choice of treatment and health care decision-making.	Ethics Conference	Ethics Conference participation
PC-6	Utilize self-directed learning in evaluation and management of patients.	Case Reports on Ambulatory rotation	Case Report evaluations
PB-1, PB-2, PB-2	Demonstrate an ability to meet or exceed the institutional standards for professional behaviors.	Patient care in inpatient and outpatient settings	Clinical Competency Evaluations

EDUCATIONAL RESOURCES, TEXTBOOKS and OTHER MATERIALS

The recommended text for Internal Medicine will be Cecil Essentials of Medicine (10th Edition). This is an excellent, easily readable text, which covers the major topics in Internal Medicine. You will need to be acquainted with the

material in this text in order to pass the Subject Exam at the end of this rotation and the Internal Medicine portion of the National Boards. You will not see enough disease variety in your patient population during this rotation to adequately cover all of the important topics in Internal Medicine. You must keep up with your reading during the rotation or you will not pass the Subject Exam.

In addition, key journals, books and websites pertaining to Internal Medicine can be located by following this link: <https://libguides.utoledo.edu/md/internalmed>

REQUIRED ACTIVITIES

Throughout the IM Clerkship, students will be expected to:

- Follow UT polices, including but not limited to professional behavior, work hours, absences, etc.
- Show up on time, be prepared, well-groomed in professional attire with a clean, pressed white coat.
- Work with faculty, residents, fellows and staff
- Log patient cases and work hours accurately and timely
- Write notes and case reports
- Present patients and cases
- Participate in patient rounds
- Provide patient care as directed by the leader of the team that they are assigned to, including:
 - Admission / discharge
 - Some procedures
 - Ordering tests
 - Updating patient medical records
 - Assist in forming treatment plans
 - Obtain a complete patients' history and perform a physical exam
- Attend and participate in scheduled sessions, lectures, didactics, ethics, SIM Lab, Lab Medicine, Harvey, etc.
- Read about patient cases, diseases, diagnoses, etc.
- Complete online cases (Aquifer)
- Obtain Observation of Clinical Skills (OCS) forms from faculty
- Complete the IM Observed Structured Clinical Exam (OSCE)
- Study and sit for the NBME IM Subject Exam
- Complete evaluations of preceptors

CLINICAL EXPERIENCES

Patients are seen in both inpatient and outpatient settings. All students complete 6 weeks of Medicine **Inpatient** service. Students are required to evaluate at least 16 inpatients over the 6-week experience. The level of involvement for each patient must include:

1. Independently gathered history information
2. Independently performed physical exam
3. Presented patient case
4. Wrote patient note
5. Opportunity to discuss laboratory or test results
6. Opportunity to offer and discuss differential diagnosis
7. Opportunity to offer and discuss management options

In addition to participating in the Medicine inpatient service, students spend 2 weeks in a variety of **Outpatient** sites. Students are required to assess at least 8 outpatients during this experience. The level of involvement for each patient must include:

1. Observed (or performed) patient interview
2. Observed (or performed) physical exam
3. Opportunity to discuss laboratory or test results
4. Opportunity to offer and discuss differential diagnosis
5. Opportunity to offer and discuss management options

Students are required to log **all** patient encounters and hours throughout the **entire** IM clerkship, and are required to meet the following minimum number of cases per diagnostic category. When logging, students will use the 'Levels of Involvement' checklist in Med Ed to determine if a patient encounter meets the minimum requirements to count towards these totals. If students are having difficulty meeting these minimum experiences, they must contact the Clerkship Director or Coordinator in advance of the end of the rotation.

Diagnostic category	Minimum # of patients to be seen	Comments/Explanation
Cardiovascular Disease	2 <i>(at least one patient with CAD and one patient with HTN)</i>	Includes CHF, ischemic heart disease, arrhythmia, hypertension, or peripheral vascular disease.
Endocrinology Disease	2 <i>(at least one patient with Diabetes Mellitus)</i>	Includes hyper/hypothyroidism, diabetes mellitus, or adrenal disease
Pulmonary Disease	2 <i>(at least one patient with obstructive lung disease)</i>	Includes COPD, asthma, interstitial lung disease
Hematologic/Oncologic Disease	2 <i>(at least one patient with anemia)</i>	Includes anemia, hematologic malignancy, or solid organ malignancy
Infectious Disease	2 <i>(at least one patient with pneumonia)</i>	Includes sepsis, endocarditis pneumonia, meningitis, urinary infection or HIV
Rheumatologic Disease	2 <i>(at least one patient with arthritis)</i>	Included rheumatoid arthritis, degenerative arthritis, or SLE
Gastroenterology Disease	2 <i>(at least one patient with gastrointestinal bleeding)</i>	Include peptic ulcer disease, esophagitis, cirrhosis or inflammatory bowel disease
Nephrology Disease	2 <i>(at least one patient with renal failure)</i>	Includes renal failure, electrolyte disturbance, acid-based disturbance, nephritic syndrome, or renal calculi

MID-CLERKSHIP FORMATIVE FEEDBACK

Students will receive a written Mid-Clerkship Formative Feedback report half-way through the entire clerkship. This report will not be used to determine a final grade for the clerkship. It is designed to give the student feedback and to point out areas that they are doing well in, as well as areas of concern, with enough time to make adjustments prior to the end of the clerkship.

GRADING

The clerkship grade will consist of 3 components:

1. Clinical Competency Evaluation (CCE)

- a. Professionalism (PROF)
 - b. Patient Care (PC)
 - c. Practice Based Learning & Improvement (PBLI)
 - d. Interpersonal Communication Skills (IPCS)
 - e. Systems Based Practice (SBP)
2. National Board of Medical Examiners (NBME) Subject Exam
 3. Departmental Education Program

Overall Grade	1. CCE profile	2. NBME (Percentile based on National NBME average from the previous year)	3. Departmental Education Program (Points/20)
Fail	Fail PC**	< 5%	< 11
Defer	Pass/High Pass/Honors	≥5 th	< 11
	Pass/High Pass/Honors	<5 th	≥ 11
	Pass/High Pass/Honors	<5 th	< 11
	Fail (PROF*) OR (PBLI or IPCS) ***	≥5 th	≥ 11
Pass	Pass	≥5 th	≥ 11
High Pass	Pass	≥ 55 th	≥ 11
	High Pass	≥5 th	≥ 11
	Honors****	≥5 th	≥ 11
Honors	Honors	≥ 55 th	≥ 17

PROF = Professionalism; PC = Patient care; PBLI = Practice Based Learning and Improvement; IPCS = Interpersonal Communication Skills

* Remediation through OSA/conduct and ethics committee

** Repeat clerkship

*** Remediation determined by Clerkship Director

**** **High Pass (with Clinical Excellence)**– will be distinguished on the MSPE on the end of clerkship narrative

1. Clinical Competency Evaluation (CCE) performance

- a. Weighting of preceptor evaluations – the weight of each preceptor evaluation will be determined by the amount time (direct contact hours) a student has with each preceptor:

Direct Contact Hours	Weight
Extensive (> 40 hours)	X16
Substantial (11 to 40 hours)	X8
Moderate (5 to 10 hours)	X4
Limited (1 to 4 hours)	X2
No Contact (<1 hour)	0

- b. Your CCE grade will be based on your performance in each of the 5 competencies.
- To qualify for CCE honors a student must have HONORS IN PROFESSIONALISM.
 - If the professionalism grade is HP or Pass, the highest CCE grade that can be assigned is HP.

Competency Grades for Patient Care, Interpersonal Communication Skills, Systems Based Practice, and Practice Based Learning and Improvement	PROFESSIONALISM		
	HONORS	HIGH PASS	PASS
4H	H	HP	HP
3H+1HP+0P	H	HP	HP
3H+0HP+1P	H	HP	HP
2H+2HP+0P	H	HP	HP
2H+1HP+1P	H	HP	HP
2H+0HP+2P	HP	HP	HP
1H+3HP+0P	HP	HP	HP
1H+2HP+1P	HP	HP	HP
1H+1HP+2P	HP	HP	P
1H+0HP+3P	HP	HP	P
0H+4HP+0P	HP	HP	HP
0H+3HP+1P	HP	HP	HP
0H+2HP+2P	HP	HP	P
0H+1HP+3P	HP	HP	P

OH+OHP+4P	P	P	P
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c. Example: if the following grades are assigned for each competency:

- i. **Professionalism = HONORS**
- ii. Interpersonal & Communication Skills = HONORS
- iii. Patient Care = PASS
- iv. Systems Based Practice = PASS
- v. Practice Based Learning & Improvement = PASS

CCE GRADE = HIGH PASS

Professionalism = HONORS

1H + 3P

CLINICAL COMPETENCY EVALUATION



★ ★ ★ ☆ ☆

HIGH PASS

Total evaluations: **2**

Evaluations based on the amount of contact:

Extensive (>10 hours): **2**

- Honors
- High Pass
- Pass
- Fail

Student Name

This report provides an overall assessment of the student performance during clerkship. The overall level of performance is indicated by the number of stars and is reflective of the specific combination of performance levels across 5 competencies. For each competency, strengths and areas needing attention are explained.

Competency: Professionalism

- **Exceptional performance** being on-time, prepared for assigned responsibilities, receptive to feedback and displaying integrity, honesty and ethical values in all interactions
- **Very good performance** in the area of cultural competence

Competency: Interpersonal & Communication Skills

- **Exceptional performance** communicating information to patients
- **Very good performance** with your listening skills, including verbal and non-verbal facilitation and using open-ended questions

Competency: Patient Care

- **Exceptional performance** including pertinent positive and negatives in HPI and giving a comprehensive patient presentation
- **Good performance** in the area of differential diagnosis for clinical encounter and development of appropriate diagnostic plans
- **Pay more attention** to organizing patient presentation and providing comprehensive documentation

Competency: Practice-Based Learning & Improvements

- **Very good performance** in identifying clinical questions, taking initiative and applying information to patient care

Competency: Systems-Based Practice

- **Good performance** in suggesting ancillary resources and identification of errors

d. **High Pass with Clinical Excellence** – Students who receive a CCE grade of HONORS but do not meet requirements for an overall clerkship grade of honors, a special designation will be noted in the final MSPE narrative that will highlight the student’s clinical performance:

“Student X’s overall grade for the XX clerkship is High Pass. Of note, this student performed at the honors level in his/her clinical performance.”

e. Fail in one competency for assessment of clinical performance will result in the following

- i. If a student fails Professionalism, Practice Based Learning and Improvement, or Interpersonal and Communication Skills, a grade of DEFER will be assigned and REMEDIATION will be required. Once the remediation is successfully completed, the student's transcript grade will be changed to a PASS.
- ii. If a student fails Patient Care, a grade of FAIL will be assigned, and the clerkship must be REPEATED in its entirety.
- iii. The lowest grade possible for the systems-based practice competency is a pass.

2. NBME subject exam

- a. Honors: ≥ 55 %tile
- b. HP/P: 5-54 %tile
- c. Fail < 5 %tile*

* Students must achieve the 5th percentile on the NBME subject examination to successfully complete the clerkship. Failure to achieve the 5th percentile will require the student to retake the subject examination and a grade of DEFER will be assigned. A second attempt on the NBME subject examination must be completed within one year from the first attempt. If the student achieves the 5th percentile or higher on the second attempt a grade of PASS will be assigned. PASS is the highest grade that can be achieved after a DEFER grade. If a student fails the NBME exam on a second attempt, then the final grade is FAIL and the clerkship must be repeated.

3. Departmental educational program (20 points total)

- a. Honors: ≥ 17
- b. HP/P : 11-16
- c. Fail < 11 points

Point distribution – 15 of the 20 points will be for OSCE performance.

1. There will **2 OSCE cases**

- a. Each case will be worth 7.5 points with points distributed as follows:

- i. Communication skills = 20%
- ii. History/Physical exam = 40%
- iii. Write up = 40%

- b. A student must score at least 70% on the OSCE (combined points at least 10.5) to pass the OSCE and the departmental education program category. If the student does not meet this threshold, the clerkship grade will be entered as a DEFER until the OSCE is successfully remediated. After successful remediation, the highest grade that a student can receive for the departmental points is a PASS.

2. 5 points – discipline specific activities

3. A minimum of 11 total points must be achieved in the Departmental Education Program. If a student does not meet the minimum threshold a grade of DEFER will be assigned until remediation is completed. PASS is the highest grade that can be achieved after a DEFER grade.

UTMC COM POLICIES

Students are responsible for following the UT policies, which can be located here in alphabetical order:

http://www.utoledo.edu/policies/academic/college_of_medicine/ this link includes, but is not limited to:

- **Supervision of Medical Students**

Excerpts from policy:

When performing any procedures or clinical activity which poses *any* risk to patient safety, students must be *directly* supervised by a faculty member or resident or fellow at the hospital or other clinical facility. In certain clinical situations, Advanced Practice Providers (APP) such as Physician Assistants, Nurse Practitioners and Midwives may provide supervision, if noted to be within their scope of practice.

***Direct** Observation/Supervision: the observing/supervising physician is physically present with the student and patient.

****Indirect** Observation/Supervision: Once student assessed to be appropriate for indirect supervision, direct observation/supervision remains immediately available--the supervising physician is either physically within the hospital or other site of patient care or is immediately available by a reliable and rapid method of communication to provide direct observation.

Policy: https://www.utoledo.edu/policies/academic/college_of_medicine/pdfs/3364-81-04-006-01.pdf

- **Clerkship Excused Absences**

Students must report absences and submit an absence request form to the Clerkship Coordinator for all absences. Unexcused absences may result in a Professional Behavior Report and possible loss of grade points.

Policy: [Excused Absences from Required Academic Activities in the M.D. Program - 3364-81-17](#)

- **Learning Environment & Faculty Professionalism**

If there is a faculty or staff member who has demonstrated outstanding professionalism and contributed to your learning environment or has detracted from your experience, complete the Learning Environment Assessment and Event Report. All responses are anonymous. If it is indicated that the event is of a serious nature and warrants immediate follow up, please enter a contact name and phone number for follow-up.

Link: <http://utmc.utoledo.edu/learningenvironment>

- **Professionalism**

Students and physicians should maintain the highest standards of professional and have a number of professional responsibilities that they are obligated to uphold. Breach of a professionalism standard will result in a professionalism behavior report based on the institutional policy.

Policy: [3364-81-04-017-02 - Professionalism and Related Standards of Conduct for MD Students](#)

- **Conflict of Interest – Separation of Roles**

The health professionals who provide sensitive medical and healthcare services to medical students will have no involvement in the academic, professionalism, or disciplinary evaluation, promotion, or dismissal of students receiving those services. Inform the Coordinator of any such relationships within the department prior to the start of the clerkship.

Policy: https://www.utoledo.edu/policies/academic/college_of_medicine/pdfs/3364_81_04_016_05.pdf

- **Assigned Educational Hours**

To ensure that there is an appropriate balance of assigned educational activities and self-directed learning, students' scheduled activities should:

- Not exceed 80 hours per week, with no more than 30 consecutive hours
- Have at least 24 consecutive hours (1 day) of non-scheduled time per week
- Notify the clerkship coordinator if they are approaching 70 hours/week

Policy: https://www.utoledo.edu/policies/academic/college_of_medicine/pdfs/3364-81-04-004-00%20%20Assined%20education%20hours%20for%20medical%20students%20during%20clinical%20clerkships.pdf

- **Blood Borne Pathogen Exposure Protocols**

In the event of blood or body fluid exposure at The University of Toledo Health Science Campus:

1. Flush area thoroughly for 15 minutes; wash with soap if applicable.

2. Notify supervising faculty member or preceptor.
3. Always report to UTMC Emergency Department for initial assessment of injury and exposure.
4. Immediately obtain and submit all lab results from both you and the primary source of contact to Ruppert Health Center, Family Medicine.
5. Complete a UTMC employee injury report at utoledo.edu/depts/safety/Forms.html and send to Safety and Health.
6. After hours/weekends, call UT Emergency Department at 419.383.3888 to address questions or concerns.
7. Notify clerkship director of incident.

Whenever exposure occurs at a non-UTMC site:

Contact the supervisor or preceptor at site to find out individual protocol. Follow up treatment after initial treatment may be obtained at occupational health which is located in the Emergency Department of University of Toledo. Exposed medical student needs to bring appropriate records from outside facility to avoid delays in treatment. Occupational health can be reached at 419-383-5598. Also inform the clerkship office.

Policy: https://www.utoledo.edu/policies/academic/college_of_medicine/pdfs/3364-81-04-016-04.pdf

STUDENT SERVICES

The University is an equal opportunity educational institution. Please read the University's Policy on Non-Discrimination on the basis of a disability, Americans with Disability Act, which can be located using the following link Policy: https://www.utoledo.edu/policies/administration/diversity/pdfs/3364_50_03_Nondiscrimination_o.pdf

- **Academic Accommodations**

The University of Toledo embraces the inclusion of students with disabilities. We are committed to ensuring equal opportunity and seamless access for full participation in all courses. For students who have an Accommodations Memo from the Office of Accessibility and Disability Resources, I invite you to correspond with me as soon as possible so that we can communicate confidentially about implementing accommodations in this course.

For students who have not established accommodations with the Office of Accessibility and Disability Resources and are experiencing disability access barriers or are interested in a referral to health care resources for a potential disability, please connect with the office by calling 419.530.4981 or sending an email to StudentDisability@utoledo.edu.

- **Academic and support services**

Please follow the link below to view a comprehensive list of Academic and Support Services available to you as a student.

Link: <http://www.utoledo.edu/studentaffairs/departments.html>

- **Safety and Health services for UT students**

Please follow the link below to view a comprehensive list of Campus Health and Safety Services available to you as a student.

Link: <https://www.utoledo.edu/offices/provost/utc/docs/CampusHealthSafetyContacts.pdf>

In this clerkship, we will work together to develop a learning community that is inclusive and respectful. Our diversity may be reflected by differences in race, culture, age, religion, sexual orientation, gender identity/expression, socioeconomic background, and a myriad of other social identities and life experiences. We will encourage and appreciate expressions of different ideas, opinions, and beliefs so that conversations and interactions that could potentially be divisive turn, instead, into opportunities for intellectual and personal development.

Course Offered:	Required M3 year
Class Location:	Varies
Class Day/Time:	Varies
Schedule:	Varies

Lab Location:	SIM Lab, if needed
Lab Day/Time:	Varies
CRN #s:	Varies
Section #s:	Varies

Note: This syllabus is subject to change.