

COURSE MATERIALS FEES ANNUAL REPORT
(2021)

Information Report

The Board Statute on Student Fee Assessment (2.74.07) provides that once a year the President or his/her designee shall provide the Board of Governors with a report on course materials and breakage fees. Under the Statute, these course materials fees may be assessed in instances where a large portion of instructional costs is due to the use of consumable resources and will occur principally in courses with associated laboratory work or similar uses of consumables. Departments provide the rationale for the fee and the justification for the level of the fee. Funds received from the fees are deposited into a General Fund account and may be used by the College only for expenses for those courses. Requests for new course material fees or changes in existing course fees require approval of either the Provost (\$100 and under) or the President (over \$100).

Appendix 1 provides the list of the changes in course materials fees approved to begin in the fall 2021 semester. Also listed are brief explanations for the course fee requests. This year there were 78 such requests that were approved, of which 2 were reduced and 2 were for the elimination of the course fee. This compares to the 122 approved course material fee requests in 2018, and 37 such requests in 2019, 42 such requests in 2020.

The number of course material fee requests over \$100.00 numbered 28 this year compared to 3 in 2018, 5 in 2019, and 13 in 2020. All of these fees will support classes in the College of Liberal Arts & Sciences and the Eugene Applebaum College of Pharmacy & Health Sciences.

Course	Title	Current Fee Amount	Proposed Fee Amount	Statement of Rationale and Justification for the proposed Course Fee
College of Engineering				
CE 6010	Introduction to Construction Engineering and Management	\$5.00	\$15.00	The fee will defray costs associated with specialized software. The course uses software tools available from main software developers such as Bentley, Autodesk, and Bluebeam. Autodesk and Bluebeam companies provide educational licenses at no cost to the CE program; however, our annual subscription license costs for the Bentley software suite have increased.
CE 7270	Air Quality Modeling	\$0	\$42.00	The fee will defray costs associated with specialized software, i.e., Interactive Data Language (IDL) licenses that will be installed over Grid High Performance Computing here at Wayne State University. The cost of one permanent IDL license is \$420 USD. The expected enrollment each year is 10 students, i.e., a \$4200 one-time cost to purchase the 10 IDL licenses with a 10-year lifespan.
College of Liberal Arts & Sciences				
BIO 2271	Principles of Microbiology Laboratory	\$0	\$90.00	The fee will defray costs associated with lab experiences that introduce students to a broad range of microorganisms and clinical and diagnostic techniques such as microorganism culturing and staining. Students will learn the safe handling of microorganisms and aseptic technique in addition to the characteristics of these organisms and the factors that affect their growth. New course.
BIO 5180	Molecular Aquatic Ecology	\$0	\$125.00	The fee will defray costs associated with hands-on field and lab experiences in organism collection, microscopy and taxonomy, PCR, DNA sequencing, quantitative and bioinformatic analysis of molecular data, and microscopic and physiological measurements. Study subjects are rare organisms found in local aquatic environments, including the Rouge River, the Detroit River, Belle Isle wetlands, or Lake St. Clair.
BIO 7520	Nucleic Acid Laboratory	\$0	\$125.00	The fee will defray costs associated with nucleic acid related techniques, and their practical application in a research lab. This lab will train students to use modern nucleic acid methods, from PCR to whole genome sequencing, allowing our graduate students to be competitive on an international level.
BIO 7530	Proteins Laboratory	\$0	\$125.00	The fee will defray costs associated with protein purification and related techniques, and their practical application in a research lab. Students will learn how to work with proteins through purification of a protein from bacteria or yeast. They learn cell lysis procedures, selection of buffers for maintaining protein integrity, dialysis and column chromatography. They will also learn analytical techniques such as electrophoresis and Western blotting.
BIO 5740 /7740	General Entomology	\$0	\$60.00	The fee will defray costs associated with hands-on training in the collection, preparation and study of insects will prepare students to conduct research or work in phylogeny, ecology, evolution or environmental monitoring. The laboratory will provide a comprehensive introduction to entomology
BIO 7560	Light Microscopy and Imaging	\$0	\$125.00	The fee will defray costs associated with hands-on introduction to basic and contemporary microscopy, including the physics of microscopy, the preparation of samples, the use of various microscopes and the analysis of the images. The hands-on nature of this course will allow for a maximum of eight students to be enrolled at a time, limited to students who require the microscopy skills for their research projects.
CHM 1060	General, Organic, and Biochemistry	\$0	\$100.00	The fee will defray costs associated with common laboratory techniques such as discovering the role of ions in nutrition, mole relationships, acid-base chemistry, gas law experiments, investigations of carbohydrates, lipids and proteins. Costs for these labs include consumable supplies and chemicals in addition to normal wear and tear for glassware and other equipment.
CHM 3130	Analytical Chemistry Laboratory	\$0	\$100.00	This is a new laboratory with an anticipated enrollment of 140 students per year. Students will learn to use quantitative analytical chemistry techniques to determine the amount of various compounds in an unknown sample. These techniques include acid-base titrations, reduction-oxidation (redox) titrations, UV-vis spectrophotometry, fluorescence spectrophotometry, column and gas chromatography. The fee will cover the cost of consumables, chemicals and any breakage or damage to equipment that might occur in a typical semester.

CHM 5900	Biomedical Research as Discovery	\$0	\$100.00	The fee will defray costs associated with a research experience in biochemistry for majors and teach students how research in biochemistry and chemical biology is conducted. Students will spend about 8 weeks planning and doing laboratory research in teams of 2 or 3. Each team will use basic biochemical instruments, bio-chemicals and chemicals in their work. As the bio-chemicals and chemicals can only be used once, they have to be purchased specifically for this class. Furthermore, many bio-chemicals are unstable and have an expiration date. They cannot be stored for long time periods and used in successive years, necessitating regular replacement. Costs for these labs include consumable supplies and chemicals in addition to normal wear and tear for glassware and other equipment.
FRE 2100	French through Film I	\$0	\$30.00	The fee will defray costs for 3 15-minute conversations with a native French speaker online. The conversation is recorded, and the three conversations can both foreground student progress over the course of FRE 2100 and serve as an assessment tool.
FRE 2110	French through Film II	\$0	\$30.00	The fee will defray costs for 3 15-minute conversations with a native French speaker online. The conversation is recorded, and the three conversations can both foreground student progress over the course of FRE 2110 and serve as an assessment tool.
FRE 3200	French Café	\$0	\$30.00	The fee will defray costs for 2 30-minute conversations with a native French speaker online. The conversations are recorded, and the conversations can both foreground student progress over the course of FRE 2100, FRE 2110, and FRE 3200 and serve as an assessment tool. The conversations will be 30 minutes for FRE 3200 so that students can see their progress in terms of conversation length.
ITA 3300	Science, History and Culture of Italian Cuisine	\$0	\$15.00	The fee will defray costs associated with use of the best available ingredients to experience and understand the history, science and culture of Italian cuisine. It is more cost efficient to charge a material course fee to help cover for the costs rather than have students individually acquire products and ingredients.
ITA 2020	Italian Through Film	\$0	\$30.00	The fee will defray costs for 3 15-minute conversations with a native Italian speaker online. The conversation is recorded, and the three conversations can both foreground student progress over the course of ITA 2020 and serve as an assessment tool.
ITA 3030	A Road to Italy	\$0	\$30.00	The fee will defray costs for 3 15-minute conversations with a native Italian speaker online. The conversation is recorded, and the three conversations can both foreground student progress over the course of ITA 3030 and serve as an assessment tool.
Eugene Applebaum College of Pharmacy & Health Sciences				
AN 7020	Practicum & Simulation I	\$0	\$10.00	The fee will defray costs for consumables and specialized software costs related to experiential learning experiences required for the National Board Examination (NCE) upon graduation. To meet experiential requirements required by the COA and NBCRNA, significant clinical hours must be spent in clinical settings. Students must also demonstrate techniques using simulation to indicate their readiness for actual clinical practice. Students obtain written feedback on their clinical performances and upload their clinical evaluations in specialized software required for the course (Typhon).
AN 7030	Adv Clinical Practicum II	\$0	\$10.00	The fee will defray costs for consumables and specialized software costs related to experiential learning experiences required for the National Board Examination (NCE) upon graduation. To meet experiential requirements required by the COA and NBCRNA, significant clinical hours must be spent in clinical settings. Students must also demonstrate techniques using simulation to indicate their readiness for actual clinical practice. Students obtain written feedback on their clinical performances and upload their clinical evaluations in specialized software required for the course (Typhon).
AN 7040	Clinical Practicum III	\$0	\$10.00	The fee will defray costs for consumables and specialized software costs related to experiential learning experiences required for the National Board Examination (NCE) upon graduation. To meet experiential requirements required by the COA and NBCRNA, significant clinical hours must be spent in clinical settings. Students must also demonstrate techniques using simulation to indicate their readiness for actual clinical practice. Students obtain written feedback on their clinical performances and upload their clinical evaluations in specialized software required for the course (Typhon).
AN 7050	Clinical Practicum IV	\$0	\$10.00	The fee will defray costs for consumables and specialized software costs related to experiential learning experiences required for the National Board Examination (NCE) upon graduation. To meet experiential requirements required by the COA and NBCRNA, significant clinical hours must be spent in clinical settings. Students must also demonstrate techniques using simulation to indicate their readiness for actual clinical practice. Students obtain written feedback on their clinical performances and upload their clinical evaluations in specialized software required for the course (Typhon).

AN 7060	Clinical Practicum V	\$0	\$10.00	The fee will defray costs for consumables and specialized software costs related to experiential learning experiences required for the National Board Examination (NCE) upon graduation. To meet experiential requirements required by the COA and NBCRNA, significant clinical hours must be spent in clinical settings. Students must also demonstrate techniques using simulation to indicate their readiness for actual clinical practice. Students obtain written feedback on their clinical performances and upload their clinical evaluations in specialized software required for the course (Typhon).
AN 7070	Clinical Practicum VI	\$0	\$10.00	The fee will defray costs for consumables and specialized software costs related to experiential learning experiences required for the National Board Examination (NCE) upon graduation. To meet experiential requirements required by the COA and NBCRNA, significant clinical hours must be spent in clinical settings. Students must also demonstrate techniques using simulation to indicate their readiness for actual clinical practice. Students obtain written feedback on their clinical performances and upload their clinical evaluations in specialized software required for the course (Typhon).
AN 7080	Clinical Practicum VII	\$0	\$10.00	The fee will defray costs for consumables and specialized software costs related to experiential learning experiences required for the National Board Examination (NCE) upon graduation. To meet experiential requirements required by the COA and NBCRNA, significant clinical hours must be spent in clinical settings. Students must also demonstrate techniques using simulation to indicate their readiness for actual clinical practice. Students obtain written feedback on their clinical performances and upload their clinical evaluations in specialized software required for the course (Typhon).
AN 7090	Clinical Practicum VIII	\$0	\$10.00	The fee will defray costs for consumables and specialized software costs related to experiential learning experiences required for the National Board Examination (NCE) upon graduation. To meet experiential requirements required by the COA and NBCRNA, significant clinical hours must be spent in clinical settings. Students must also demonstrate techniques using simulation to indicate their readiness for actual clinical practice. Students obtain written feedback on their clinical performances and upload their clinical evaluations in specialized software required for the course (Typhon).
AN 7170	Principles of Anesthesia III	\$0	\$10.00	The fee will defray costs for consumables and specialized software costs related to experiential learning experiences required for the National Board Examination (NCE) upon graduation. To meet experiential requirements required by the COA and NBCRNA, significant clinical hours must be spent in clinical settings. Students must also demonstrate techniques using simulation to indicate their readiness for actual clinical practice. Students obtain written feedback on their clinical performances and upload their clinical evaluations in specialized software required for the course (Typhon).
AN 7181	Principles of Anesthesia IV	\$0	\$10.00	The fee will defray costs for consumables and specialized software costs related to experiential learning experiences required for the National Board Examination (NCE) upon graduation. To meet experiential requirements required by the COA and NBCRNA, significant clinical hours must be spent in clinical settings. Students must also demonstrate techniques using simulation to indicate their readiness for actual clinical practice. Students obtain written feedback on their clinical performances and upload their clinical evaluations in specialized software required for the course (Typhon).
CLS 4000	Clinical Hematology	\$28.00	\$36.00	The fee will defray costs for assessment examination software and for clinical training tracking software for each student in clinical training. The software provides assessment test questions scoring of examinations in each specialty area as students participate in clinical training in each of our specialty areas. The clinical training tracking software allows us to track student attendance, student evaluations, and student grades at each clinical site and as they progress through each specialty area. This documentation is needed for evaluating performance and determining final course grades in the clinical courses and for program accreditation records. We need to adjust the fee this year as we are reconfiguring our clinical courses, consolidating from five courses to four, and because pricing for MediaLab has increased.
CLS 4010	Clinical Chemistry	\$28.00	\$36.00	The fee will defray costs for assessment examination software and for clinical training tracking software for each student in clinical training. The software provides assessment test questions scoring of examinations in each specialty area as students participate in clinical training in each of our specialty areas. The clinical training tracking software allows us to track student attendance, student evaluations, and student grades at each clinical site and as they progress through each specialty area. This documentation is needed for evaluating performance and determining final course grades in the clinical courses and for program accreditation records. We need to adjust the fee this year as we are reconfiguring our clinical courses, consolidating from five courses to four, and because pricing for MediaLab has increased.

CLS 4020	Clinical Blood Bank	\$28.00	\$36.00	The fee will defray costs for assessment examination software and for clinical training tracking software for each student in clinical training. The software provides assessment test questions scoring of examinations in each specialty area as students participate in clinical training in each of our specialty areas. The clinical training tracking software allows us to track student attendance, student evaluations, and student grades at each clinical site and as they progress through each specialty area. This documentation is needed for evaluating performance and determining final course grades in the clinical courses and for program accreditation records. We need to adjust the fee this year as we are reconfiguring our clinical courses, consolidating from five courses to four, and because pricing for MediaLab has increased.
CLS 4030	Clinical Microbiology	\$28.00	\$36.00	The fee will defray costs for assessment examination software and for clinical training tracking software for each student in clinical training. The software provides assessment test questions scoring of examinations in each specialty area as students participate in clinical training in each of our specialty areas. The clinical training tracking software allows us to track student attendance, student evaluations, and student grades at each clinical site and as they progress through each specialty area. This documentation is needed for evaluating performance and determining final course grades in the clinical courses and for program accreditation records. We need to adjust the fee this year as we are reconfiguring our clinical courses, consolidating from five courses to four, and because pricing for MediaLab has increased.
CLS 4240	Immunohematology II	\$0	\$65.00	The fee will defray costs associated with required materials for advanced immunohematology laboratory techniques including screening patients' blood for unusual antibodies against erythrocyte antigens, antibody identification, screening donor blood for these antigens to find compatible units of blood for transfusion, and preparation of blood components for transfusion. This course will be run for the first time in Fall 2021.
CLS 5500	Immunology and Serology	\$140.00	\$0	This course was changed from lecture and laboratory to online lecture/discussion. The course materials fee for this course is no longer needed.
CLS 5550	Molecular Diagnostics	\$140.00	\$0	This course was changed from lecture and laboratory to online lecture/discussion. The course materials fee for this course is no longer needed.
PAA 5050	Clinical Terminology & Methodology I	\$0	\$100.00	The fee will defray costs associated with a simulated surgical laboratory setting. Hands-on instruction provides the most realistic organ tissues available to perform frozen sections, tumor triage, inking, and sectioning for tumor staging. PPE mimics that utilized in the clinical setting and is required for routine laboratory safety. Chemicals are used to maintain tissue for multiple laboratory usage.
PAA 5051	Clinical Terminology & Methodology II for Pathologists' Assistants	\$0	\$100.00	The fee will defray costs associated with a simulated surgical laboratory setting. Hands-on instruction provides the most realistic organ tissues available to perform frozen sections, tumor triage, inking, and sectioning for tumor staging. PPE mimics that utilized in the clinical setting and is required for routine laboratory safety. Chemicals are used to maintain tissue for multiple laboratory usage.
PAA 5052	Clinical Terminology & Methodology III for Pathologists' Assistants	\$0	\$100.00	The fee will defray costs associated with a simulated surgical laboratory setting. Hands-on instruction provides the most realistic organ tissues available to perform frozen sections, tumor triage, inking, and sectioning for tumor staging. PPE mimics that utilized in the clinical setting and is required for routine laboratory safety. Chemicals are used to maintain tissue for multiple laboratory usage.
PAA 6561	Human Histology & Clinical Correlations II	\$0	\$100.00	The fee will defray costs associated with histology lab techniques. Histological supplies are required to provide students with histological knowledge and the practice of normal and abnormal microscopy. PPE mimics that utilized in the clinical setting and is required for routine laboratory safety.
PAA 7061	Human Anatomy & Physiology II for Pathologists' Assistants	\$0	\$100.00	The fee will defray costs associated with anatomy/physiology lab experiences. Chemical supplies are needed to maintain the cadaveric tissue during the time (20 months) the cadaver stays in the laboratory. PPE mimics that utilized in the clinical setting and is required for routine laboratory safety.
PAA 7650	Surgical Pathology I	\$200.00	\$250.00	The fee will defray costs for specialized software, materials and equipment expenses. The EXXAT Clinical Dashboard Platform allows for clinical site assessment, clinical scheduling, clinical specimen reporting, and student assessment by the clinical instructor. The ACEMAPP scheduling dashboard is a requirement of two new clinical sites. The per-student cost of ME instruments is spread across the 4 clinical courses per clinical year.
PAA 7651	Surgical Pathology II	\$200.00	\$250.00	The fee will defray costs for specialized software, materials and equipment expenses. The EXXAT Clinical Dashboard Platform allows for clinical site assessment, clinical scheduling, clinical specimen reporting, and student assessment by the clinical instructor. The ACEMAPP scheduling dashboard is a requirement of two new clinical sites. The per-student cost of ME instruments is spread across the 4 clinical courses per clinical year.

PAA 7652	Surgical Pathology III	\$200.00	\$250.00	The fee will defray costs for specialized software, materials and equipment expenses. The EXXAT Clinical Dashboard Platform allows for clinical site assessment, clinical scheduling, clinical specimen reporting, and student assessment by the clinical instructor. The ACEMAPP scheduling dashboard is a requirement of two new clinical sites. The per-student cost of ME instruments is spread across the 4 clinical courses per clinical year.
PAA 7700	Forensic & Clinical Autopsy Pathology & Techniques	\$100.00	\$150.00	The fee will defray costs for specialized software, materials and equipment expenses. The EXXAT Clinical Dashboard Platform allows for clinical site assessment, clinical scheduling, clinical specimen reporting, and student assessment by the clinical instructor. The ACEMAPP scheduling dashboard is a requirement of two new clinical sites. The per-student cost of ME instruments is spread across the 4 clinical courses per clinical year.
PAS 7040	Patient Evaluation I	\$278.00	\$351.00	The fee will defray increased costs from Clinical Skill Center fees charged by staff at the School of Medicine. Additionally, the fee will support specialized software, EXXAT education management system that is used to monitor and evaluate our students at their clinical site visits. EXXAT expenses are spread across the pertinent didactic courses in Year I (PAS 7040, 7050 and PAS 7060) and all courses in Year II (PAS 8000, 8010 and 8020).
PAS 7050	Patient Evaluation II	\$254.00	\$327.00	The fee will defray increased costs from Clinical Skill Center fees charged by staff at the School of Medicine. Additionally, the fee will support specialized software, EXXAT education management system that is used to monitor and evaluate our students at their clinical site visits. EXXAT expenses are spread across the pertinent didactic courses in Year I (PAS 7040, 7050 and PAS 7060) and all courses in Year II (PAS 8000, 8010 and 8020).
PAS 7060	Patient Evaluation III	\$415.00	\$695.00	The fee will defray increased costs from Clinical Skill Center fees charged by staff at the School of Medicine. Additionally, the fee will support specialized software, EXXAT education management system that is used to monitor and evaluate our students at their clinical site visits. EXXAT expenses are spread across the pertinent didactic courses in Year I (PAS 7040, 7050 and PAS 7060) and all courses in Year II (PAS 8000, 8010 and 8020). Finally, there has been a significant in the cost of supplies for the diagnostics portion of this course.
PAS 8000	Internal Medicine Practicum	\$408.00	\$471.00	The fee will defray costs for specialized software. The Covid-19 epidemic resulted in part of clinical practicum courses to go to a virtual platform with online patient simulation cases. Two programs were used during this time -Aquifer (https://aquifer.org) and iHuman (https://www.i-human.com). Over the past year, we have found elements of both programs have greatly augmented and leveled the exposure of patient scenarios that students experience during their clinical year, and the faculty would like to permanently incorporate both of these programs to enhance the didactic component of the clinical year. The expenses for these two programs and ROSH review software will be spread over the 8 courses students take during their clinical year (PAS 8000, 8010, 8020, 8030, 8040, 8050, 8060, 8070). All three online programs will be provided at the group discount provided to the University. Additionally, the fee will support specialized software, EXXAT education management system that is used to monitor and evaluate our students at their clinical site visits. EXXAT expenses are spread across the pertinent didactic courses in Year I (PAS 7040, 7050 and PAS 7060) and all courses in Year II (PAS 8000, 8010 and 8020).
PAS 8010	Obstetrics and Gynecology Rotation	\$102.00	\$165.00	The fee will defray costs for specialized software. The Covid-19 epidemic resulted in part of clinical practicum courses to go to a virtual platform with online patient simulation cases. Two programs were used during this time -Aquifer (https://aquifer.org) and iHuman (https://www.i-human.com). Over the past year, we have found elements of both programs have greatly augmented and leveled the exposure of patient scenarios that students experience during their clinical year, and the faculty would like to permanently incorporate both of these programs to enhance the didactic component of the clinical year. The expenses for these two programs and ROSH review software will be spread over the 8 courses students take during their clinical year (PAS 8000, 8010, 8020, 8030, 8040, 8050, 8060, 8070). All three online programs will be provided at the group discount provided to the University. Additionally, the fee will support specialized software, EXXAT education management system that is used to monitor and evaluate our students at their clinical site visits. EXXAT expenses are spread across the pertinent didactic courses in Year I (PAS 7040, 7050 and PAS 7060) and all courses in Year II (PAS 8000, 8010 and 8020).

PAS 8020	Emergency Medicine Rotation	\$127.00	\$190.00	The fee will defray costs for specialized software. The Covid-19 epidemic resulted in part of clinical practicum courses to go to a virtual platform with online patient simulation cases. Two programs were used during this time -Aquifer (https://aquifer.org) and iHuman (https://www.i-human.com). Over the past year, we have found elements of both programs have greatly augmented and leveled the exposure of patient scenarios that students experience during their clinical year, and the faculty would like to permanently incorporate both of these programs to enhance the didactic component of the clinical year. The expenses for these two programs and ROSH review software will be spread over the 8 courses students take during their clinical year (PAS 8000, 8010, 8020, 8030, 8040, 8050, 8060, 8070). All three online programs will be provided at the group discount provided to the University. Additionally, the fee will support specialized software, EXXAT education management system that is used to monitor and evaluate our students at their clinical site visits. EXXAT expenses are spread across the pertinent didactic courses in Year I (PAS 7040, 7050 and PAS 7060) and all courses in Year II (PAS 8000, 8010 and 8020).
PAS 8030	Pediatrics Rotation	\$70.00	\$130.00	The fee will defray costs for specialized software. The Covid-19 epidemic resulted in part of clinical practicum courses to go to a virtual platform with online patient simulation cases. Two programs were used during this time -Aquifer (https://aquifer.org) and iHuman (https://www.i-human.com). Over the past year, we have found elements of both programs have greatly augmented and leveled the exposure of patient scenarios that students experience during their clinical year, and the faculty would like to permanently incorporate both of these programs to enhance the didactic component of the clinical year. The expenses for these two programs and ROSH review software will be spread over the 8 courses students take during their clinical year (PAS 8000, 8010, 8020, 8030, 8040, 8050, 8060, 8070). All three online programs will be provided at the group discount provided to the University. Additionally, the fee will support specialized software, EXXAT education management system that is used to monitor and evaluate our students at their clinical site visits. EXXAT expenses are spread across the pertinent didactic courses in Year I (PAS 7040, 7050 and PAS 7060) and all courses in Year II (PAS 8000, 8010 and 8020).
PAS 8040	Psychiatry Rotation Practicum	\$70.00	\$130.00	The fee will defray costs for specialized software. The Covid-19 epidemic resulted in part of clinical practicum courses to go to a virtual platform with online patient simulation cases. Two programs were used during this time -Aquifer (https://aquifer.org) and iHuman (https://www.i-human.com). Over the past year, we have found elements of both programs have greatly augmented and leveled the exposure of patient scenarios that students experience during their clinical year, and the faculty would like to permanently incorporate both of these programs to enhance the didactic component of the clinical year. The expenses for these two programs and ROSH review software will be spread over the 8 courses students take during their clinical year (PAS 8000, 8010, 8020, 8030, 8040, 8050, 8060, 8070). All three online programs will be provided at the group discount provided to the University. Additionally, the fee will support specialized software, EXXAT education management system that is used to monitor and evaluate our students at their clinical site visits. EXXAT expenses are spread across the pertinent didactic courses in Year I (PAS 7040, 7050 and PAS 7060) and all courses in Year II (PAS 8000, 8010 and 8020).
PAS 8050	Surgical Rotation	\$101.00	\$161.00	The fee will defray costs for specialized software. The Covid-19 epidemic resulted in part of clinical practicum courses to go to a virtual platform with online patient simulation cases. Two programs were used during this time -Aquifer (https://aquifer.org) and iHuman (https://www.i-human.com). Over the past year, we have found elements of both programs have greatly augmented and leveled the exposure of patient scenarios that students experience during their clinical year, and the faculty would like to permanently incorporate both of these programs to enhance the didactic component of the clinical year. The expenses for these two programs and ROSH review software will be spread over the 8 courses students take during their clinical year (PAS 8000, 8010, 8020, 8030, 8040, 8050, 8060, 8070). All three online programs will be provided at the group discount provided to the University. Additionally, the fee will support specialized software, EXXAT education management system that is used to monitor and evaluate our students at their clinical site visits. EXXAT expenses are spread across the pertinent didactic courses in Year I (PAS 7040, 7050 and PAS 7060) and all courses in Year II (PAS 8000, 8010 and 8020).

PAS 8060	Family Medicine Rotation	\$96.00	\$156.00	The fee will defray costs for specialized software. The Covid-19 epidemic resulted in part of clinical practicum courses to go to a virtual platform with online patient simulation cases. Two programs were used during this time -Aquifer (https://aquifer.org) and iHuman (https://www.i-human.com). Over the past year, we have found elements of both programs have greatly augmented and leveled the exposure of patient scenarios that students experience during their clinical year, and the faculty would like to permanently incorporate both of these programs to enhance the didactic component of the clinical year. The expenses for these two programs and ROSH review software will be spread over the 8 courses students take during their clinical year (PAS 8000, 8010, 8020, 8030, 8040, 8050, 8060, 8070). All three online programs will be provided at the group discount provided to the University. Additionally, the fee will support specialized software, EXXAT education management system that is used to monitor and evaluate our students at their clinical site visits. EXXAT expenses are spread across the pertinent didactic courses in Year I (PAS 7040, 7050 and PAS 7060) and all courses in Year II (PAS 8000, 8010 and 8020).
PAS 8070	Preceptorship	\$315.00	\$395.00	The fee will defray costs for specialized software. The Covid-19 epidemic resulted in part of clinical practicum courses to go to a virtual platform with online patient simulation cases. Two programs were used during this time -Aquifer (https://aquifer.org) and iHuman (https://www.i-human.com). Over the past year, we have found elements of both programs have greatly augmented and leveled the exposure of patient scenarios that students experience during their clinical year, and the faculty would like to permanently incorporate both of these programs to enhance the didactic component of the clinical year. The expenses for these two programs and ROSH review software will be spread over the 8 courses students take during their clinical year (PAS 8000, 8010, 8020, 8030, 8040, 8050, 8060, 8070). All three online programs will be provided at the group discount provided to the University. Additionally, the fee will support specialized software, EXXAT education management system that is used to monitor and evaluate our students at their clinical site visits. EXXAT expenses are spread across the pertinent didactic courses in Year I (PAS 7040, 7050 and PAS 7060) and all courses in Year II (PAS 8000, 8010 and 8020).
PT 5010	Clinical Applications I	\$50.00	\$20.00	Change of course material fee includes moving the cost of PT Ed Manager (\$30) student fee to second year when it is used by the students.
PT 5020	Foundations of Physical Therapy	\$55.00	\$90.00	The fee will defray the cost of white coats for clinical rotations and the cost of specialized software required for course, which includes necessary online HIPPA modules required for accreditation.
PT 5030	Basic Patient Care in Physical Therapy	\$0	\$25.00	The fee will defray the cost of replacement equipment used for lab instruction and the wear and tear that occurs with use. Also, to cover disposable materials used as part of the education for patient care in the acute and medical environment.
PT 5070	Clinical Application II	\$0	\$30.00	The fee will defray costs for specialized software, PT Ed Manager. This cost has been moved from Clinical Application I to correspond with the professional year students will need access.
PT 5100	Therapeutic Exercise I	\$50.00	\$100.00	The fee will defray costs for specialized software, i.e., Medbridge online supplemental material and modules, including virtual instruction of special tests and access to exercise protocols used in multiple courses in the second year.
PT 5500	Kinesiology and Biomechanics	\$10.00	\$20.00	The fee will defray the cost of replacement equipment used for lab instruction and the wear and tear that occurs with use. Also, to cover disposable materials used as part of the labs.
PT 5820	Clinical Education II	\$30.00	\$45.00	The fee will defray costs for specialized software, i.e., CPI Web, an online system for recording clinical competencies that is required by accreditation.
PT 6100	Therapeutic Exercise II	\$60.00	\$15.00	Change course material fee to reflect reduction of cost by \$50 used for an ExamSoft student subscription - this will be moved to PT 8110.
PT 7000	Therapeutic Modalities	\$20.00	\$30.00	The fee will defray the cost of rotating purchases of Ultrasound and NMES machines as they become clinically obsolete and must be replaced from wear and tear, as educational rental program is no longer available.
PT 7100	Management of Patients with Orthopedic Conditions I	\$15.00	\$25.00	The fee will defray the cost of replacement lab equipment due to normal wear and tear. Original course fee only covers small lab supplies (i.e., wedges and belts).
PT 7120	Management of Patients with Orthopedic Conditions II	\$15.00	\$25.00	The fee will defray the increased costs for lab supplies, and to cover lab equipment and materials that have been depleted due to wear and tear.
PT 7200	Management of Patients with Neurological Disorders I	\$15.00	\$65.00	The fee will defray costs for specialized software, a 1-year PhysioU subscription for student individual use. This provides access to video content of neuro testing protocols, patient cases, patient videos and teaching modules.

PT 7220	Management of patients with Neurological Disorders II	\$15.00	\$35.00	The fee will defray increased costs for replacing white coats due to wear and tear. This cost is distributed between two courses PT 7220 and PT 7320.
PT 7300	Prosthetics and Orthotics	\$20.00	\$25.00	The fee will defray increased costs of casting materials.
PT 7320	Rehabilitation Procedures	\$0	\$20.00	The fee will defray increased costs for replacing white coats due to wear and tear. This cost is distributed between two courses PT 7220 and PT 7320.
PT 8110	Geriatrics	\$0	\$50.00	The fee will defray costs for specialized software, ExamSoft. This fee has been moved from PT 6100.
PT 8500	Clinical Decision Making	\$80.00	\$95.00	The fee will defray increases in the PEAT exam cost.
PT 8800	Clinical Education III	\$20.00	\$70.00	The fee will defray costs for specialized software, ACEMAPP, used by two large clinical affiliations sites for students. This will cover the cost of students going to DMC and other clinical sites that use this system in any one of the 4 Clinical Education courses in the program. Most of our students rotate through these systems at least once.
RDT 3100	Introduction to Radiologic Technology	\$0	\$50.00	The fee will defray costs associated with labs focused on demonstrations of basic radiographic positioning as well as a few advanced procedures (GI and OR) to meet accreditation requirements. Reusable equipment will also be used in RDT 3300 (held in the same semester). Additionally, the fee will support accreditation (JRCERT)-required student liability insurance coverage.
RDT 3900	Clinical Education III	\$0	\$50.00	The fee will defray costs for specialized software, eValue. The fees have been spread across the clinical education semesters.
RDT 4300	Clinical Education IV	\$30.00	\$50.00	The fee will defray costs for specialized software, eValue. The fees have been spread across the clinical education semesters.
RDT 4600	Radiology Seminar	\$0	\$20.00	The fee will defray costs associated with using a simulator arm for venipuncture, an American Registry of Radiologic Technologists (ARRT)-required mandatory general patient care competency.
RDT 4700	Clinical Education VI	\$0	\$50.00	The fee will defray costs for specialized software, eValue. The fees have been spread across the clinical education semesters.
RT 3110	Clinical Aspects of Radiation Therapy	\$0	\$65.00	The fee will defray costs for background checks, which students must have prior to their clinical rotations.