

MICHIGAN COLLEGE OF OPTOMETRY - FERRIS STATE UNIVERSITY
STUDENT ACADEMIC AFFAIRS OFFICE
ESTIMATED EXPENSES AS OF JULY 20, 2022
ACADEMIC YEAR 2022–2023

EQUIPMENT

First Professional Year

Fall Semester

By Fall term, tenth week, all first year optometry students are expected to obtain the following equipment which is required for the pre-clinical and clinical optometry courses:

Miscellaneous Equipment:

1. Occluder/Hand-held Maddox Rod** - \$15.90, or Occluder/Single (Black) - \$15.90
2. +/-1.50 and +/-2.00 Lens Flippers - \$20.14 each
3. Trial Lens Set to include + and – Cylinder Lenses and Trial Frame - \$704.90
4. Bernell Trial Lens Flipper Bar** - \$24.38 (now included in the Pioneer first year kit)
5. Stethoscope, Combination Diaphragm/Bell Model - \$92.22
6. Stereo Randot Test - \$159.00
7. OSU Near Point Cards (2)** - \$20.14 (\$10.07 each)
8. Clinic Case - \$131.19 (optional slimline case for an additional cost of \$50)
9. Combination Prism Set, with or without Maddox Rod** - \$249.69
10. Vergence Facility Prism** - \$20.95
11. P.D. Rule** - \$2.20
12. Goldman Tonometry Prisms - \$131.44

**Indicates potential VSP Scholarship item – See Class Reps for details.

All items listed above may be purchased from vendors at the annual fall Optical Showcase.

Total (Items 1-12) = \$1,642.29

Diagnostic Ophthalmic Package to Include:

1. Ophthalmoscope Head
2. Retinoscope Head
3. Handles (2)
4. Well-charger or Plug-in Rechargeable Handles
5. Hard Case
6. Transilluminator

Approximate Total (Items 1-6) \$1,319.70

Other Requirements:

1. ExamSoft Software Fee – approximately \$70.00
2. White Coat – \$15.00 (provided by MOA)
3. Clinic Badge - \$3.50

4. Immunization Records verification through Castlebranch – approximately \$35.00
 - a) TB skin test
 - b) MMR – measles, mumps, rubella
 - c) DTP – diphtheria, tetanus, pertussis
 - d) Influenza
 - e) Hepatitis B Vaccination – must comply with one of three options below to participate in clinic activities:
 - * provide documentation if already received series
 - * sign a waiver to opt out of series
 - * obtain series at your cost – estimate \$300
5. CPR Certification – cost varies based on organization/location chosen
 - * CPR courses must include Adult, Child, Infant CPR, and AED Training for Healthcare Providers

Total = \$423.50

Approximate Grand Total (First Year) = \$3,385.49

Second Professional Year

Fall Semester

Required Equipment:

1. Binocular Indirect Ophthalmoscope (BIO) with Teaching Mirror - \$2,756.00
2. Goldmann Style 3 Mirror Gonioscopy Lens (with non-detachable flange recommended) - \$445.20
3. Scleral Indentor - \$55.12
4. Foreign Body Removal Kit - \$311.64 (*Pioneer Models include a Scleral Indentor*)
5. Lens Flippers (+/-1.00D) - \$20.14
6. Volk 20D Lens - \$302.10
7. Volk Superfield Lens - \$402.80

Total (Items 1-7) = \$4,293.00

Spring Semester

NOTICE: These items must be purchased and in the student's possession for the first week of the spring semester.

* These items are coordinated by the COVD student organization.

1. *Saladin Near Point Balance Card (available through www.bernell.com) BCSALCD - \$111.95
2. *Peds Package: LEA Distance/Near cards, Bernell fixation stick, finger puppets, Saladin card kit (includes polaroid glasses, Maddox rod, penlight and card), retinoscopy bars, +/-0.50 flippers. The expected cost for the Peds Package is \$350.00.

Other Requirements:

1. ExamSoft Software Fee – approximately \$70.00
2. Clinic Access Card - \$10.00 (issued before the start of spring semester)
3. Annual TB Skin Test – only required if individual is classified high risk in compliance with Ferris policy

Total = \$541.95

Grand Total (Second Year) = \$4,834.95

Third Professional Year

Summer Semester

1. CPR Training – mask and manual, approximately \$50.00 (required if no initial certification was completed prior to matriculation)
or
2. CPR Recertification – can be done online, cost varies based on organization chosen

Fall Semester

1. 4 Mirror Gonioscopy (no fluid) Lens, without Flange - \$445.20

Other Requirements:

1. ExamSoft Software Fee – approximately \$70.00
2. Annual TB Skin Test – only required if individual is classified high risk in compliance with Ferris policy

Grand Total (Third Year) = \$565.20

Fourth Professional Year

First Rotation, Second Rotation, Third Rotation

Required Equipment:

As required by the rotation site and approved by the Externship Director.

Texts:

As required by the rotation site and approved by the Externship Director.

Other Requirements:

1. ExamSoft Software Fee – approximately \$70.00
2. Fingerprinting required by VA's – student may incur costs (no cost if completed at the Battle Creek VA)
3. Annual TB Skin Test – only required if individual is classified high risk in compliance with Ferris policy
4. COVID shot & boosters

Grand Total (Fourth Year) = \$70.00

TEXTBOOKS

First Professional Year

Fall Semester

BIOL 438: Microbiology & Immunology for Optometry

- Brock Biology of Microorganisms, Madigan et al., 14th Ed., \$244.80 (Recommended)
- Kuby Immunology, Goldsby et al., 5th Ed., \$104.99 (Recommended)
- Schaechter's Mechanism of Microbial Disease, Engleberg et al., 4th Ed., \$74.00

OPTM 511: Introduction to Optometry

- No textbook required

OPTM 514: Ethics & The Dr./Patient Relationship

- Professional Communications in Eye Care, Ettinger, \$94.95
- Optometry 514 Course Pack, Miller, \$10.50
- An Optometrist's Guide to Clinical Ethics, Bailey & Heitman, AOA, (Recommended) (Available on-line free of charge at the American Optometric Association website www.aoa.org)
- Michigan Optometric Association Membership Guide, Schnetzler, (Recommended) (Free to MOA members)

OPTM 524: Geometric, Physical & Visual Optics 1

- Geometric, Physical and Visual Optics, Keating, 2nd Ed., \$140.00
- Optometry 524/525 Course Pack, Pole, (*Available on Canvas*)

OPTM 534: Ocular Anatomy & Physiology

- Clinical Anatomy & Physiology of the Visual System, Remington, 4th Ed., \$99.99
- Adler's Physiology of the Eye, Kaufman, et al., 11th Ed., \$108.00 (Recommended)

BIOL 537: Anatomy & Physiology for Optometry 1

- Vander's Human Physiology, Widmaier, Raff & Strang, 12th Ed., \$221.67
- Seeley's Anatomy and Physiology Lab Manual, VanPutte, 11th Ed., \$184.33

Spring Semester

OPTM 525: Geometric, Physical & Visual Optics 2

- Listed under OPTM 524 - Geometric, Physical and Visual Optics, Keating
- Listed under OPTM 524 - Optometry 524/525 Course Pack, Pole

OPTM 526: Vision Science 1

- Visual Perception: A Clinical Orientation, Schwartz, 5th Ed., \$99.00

BIOL 538: Anatomy & Physiology for Optometry 2

- Listed under BIOL 537 - Vander's Human Physiology, Widmaier, Raff & Strang, 12th Ed.

OPTM 543: Optometric Procedures 1

- Clinical Procedures for Ocular Examination, Carlson et al., 4th Ed., \$85.00
- Optometry 543 Course Pack, Miller, \$39.15

OPTM 559: Introduction to Medical Record Keeping

- No textbook required

Second Professional Year

Fall Semester

OPTM 615: Practice Management 1

- Business Aspects of Optometry, Classe et al, 3rd Ed. (*Provided by VSP or free online at www.optometrybusiness.com*)

OPTM 627: Vision Science 2

- Foundations of Binocular Vision: A Clinical Perspective, Steinman, \$111.00
- Listed under OPTM 526 - Visual Perception: A Clinical Orientation, Schwartz, 5th Ed.

OPTM 628: Ophthalmic Optics

- System for Ophthalmic Dispensing, Brooks, & Borish, 3rd Ed., \$163.00 (Recommended)
- OPTM 628 Course Packet, Brady (*Available on Canvas*)

OPTM 630: General Pathology

- Robbins Basic Pathology, Kumar et al, Editions 8, 9 or 10 is acceptable, \$99.95

OPTM 635: Neuroanatomy & Neurophysiology

- Neuroscience, Lippincott's Illustrated Reviews, Krebs et al, 2nd Ed., \$77.99 (Recommended)

OPTM 644: Optometric Procedures 2

- Optometric Procedures 2 Course Pack, Miller, \$12.35
- Listed under OPTM 543 - Clinical Procedures for Ocular Examination, Carlson et al., 4th Ed.

Spring Semester

OPTM 629: Ophthalmic Dispensing Lab

- Listed under OPTM 628 - System for Ophthalmic Dispensing, Brooks & Borish, 3rd Ed. (Recommended)

OPTM 631: Physical Exam. & Diagnostic Procedures

- Clinical Medicine in Optometric Practice, Muchnick, 2nd Ed., \$131.00 (Recommended)
- Bate's Guide to Physical Examination and History Taking w/CD, 11th Ed., \$129.99 (Recommended)

OPTM 633: Laser & Refractive Surgery

- Ophthalmology, Yanoff, 5th Ed., \$350.00

OPTM 636: Diagnosis & Treatment of Anterior Segment

- Listed under OPTM 633 - Ophthalmology, Yanoff, 5th Ed. (Recommended)

OPTM 645: Diagnosis of Accom. & Binoc. Dysfunc.

- Clinical Management of Binocular Vision, Scheiman & Wick, 5th Ed., \$112.99
- 2021-2022 Basic & Clinical Science Course, Section 6: Pediatric Ophthalmology & Strabismus, Hered, American Academy of Ophthalmology. 2020. ebook, \$319.14 (Recommended)
- Handbook of Pediatric Strabismus and Amblyopia, Wright, paperback, \$98.00 (Recommended)
- Foundations in Binocular Vision: A Clinical Perspective, Steinman, \$111.00 (Recommended)
- Listed under OPTM 543 - Clinical Procedures for Ocular Examination, Carlson, 4th Ed. (Recommended)
- Listed under OPTM 633 - Ophthalmology, Yanoff, 5th Edition (Recommended)

OPTM 648: Contact Lenses I

- Clinical Manual of Contact Lens, Bennett & Henry, 5th Ed., Free link will be provided

OPTM 650: Optometry Clinic 2-1

- Previous textbooks as applicable

OPTM 657: Clinical Problem Solving 1

- No textbook required

Third Professional Year

Summer Semester

OPTM 717: Public Health and Optometry

- Epidemiology, Biostatistics, Preventive Medicine, and Public Health, Katz et al., 5th Ed., \$59.95
- Optometric Care within the Public Health Community, Hatch, S., Whitener, J., McAlister, W. H., & Block, S., 2009, Cadyville, NY: Old Post Publishing
- Public Health 101, 3rd Ed., \$92.95 (Recommended)

OPTM 733: General and Ocular Pharmacology

- No textbook required

OPTM 738: Injectable Pharmaceuticals Lab

- No textbook required

OPTM 746: Vision Therapy & Occupational Vision

- Binocular Anomalies: Theory, testing, and therapy, 5th edition (2 volume set), Griffin & Borsting, OEP \$146.65
- Listed under OPTM 645 - Clinical Management of Binocular Vision, Scheiman & Wick, 4th Ed.
- Clinical Management of Strabismus, Caloroso & Rouse, OEP, \$92.40 (Recommended)
- Clinical Uses of Prism, Cotter, \$106.70 (Recommended)

OPTM 749: Contact Lenses 2

- Listed under OPTM 648 - Clinical Manual of Contact Lens, 4th Ed., Bennett & Henry
- Clinical Contact Lens Practice, Bennett & Weissman, 5th Ed., Free link will be provided (Recommended)

OPTM 751: Optometry Clinic 3-1

- KMK Educational Services, Part One National Board Review, \$975.00-\$1,975.00

OPTM 758: Clinical Problem Solving 2

- No textbook required

Fall Semester

OPTM 732: Pharm. Mgmt. Of Ocular Conditions

- Listed Under OPTM 733 - Clinical Ocular Pharmacology, Bartlett & Jaanus, 5th Ed.

OPTM 734: Diagnosis & Treatment of Glaucoma

- Listed Under OPTM 633 - Ophthalmology, Yanoff, 5th Ed.
- Essential Perimetry, Heijl and Patella, 3rd Ed., (free pdf version can be downloaded from academia.edu)
- Atlas of Clinical Ophthalmology, Hitchings, 3rd Ed., \$325.00 (Recommended)

OPTM 736: Diagnosis & Treatment of Posterior Segment

- Listed Under OPTM 633 - Ophthalmology, Yanoff, 5th Ed.
- Listed Under OPTM 734 – Atlas of clinical Ophthalmology, Hitchings, 3rd Ed.

OPTM 741: Developmental & Behavioral Pediatric Optometry

- Visual Development, Diagnosis, and Treatment of the Pediatric Patient, Duckman, 2nd Ed., \$99.99
- Listed under OPTM 645 - 2020-2021 Basic & Clinical Science Course, Section 6: Pediatric Ophthalmology & Strabismus, Hered, American Academy of Ophthalmology. 2020. ebook
- Optometric Management of Learning-Related Vision Problems, Scheiman, 2nd Ed., \$108.00 (Recommended)
- Visual Diagnosis & Care of the Patient with Special Needs, Taub, et al., \$79.99 (Recommended)

OPTM 752: Optometry Clinic 3-2

- No textbook required

Spring Semester

OPTM 718: Practice Management 2

- Listed Under OPTM 615 - Business Aspects of Optometry, Classe et al, 3rd Ed.

OPTM 737: Advance Ocular Disease & Surgical Management

- Listed Under OPTM 633 - Ophthalmology, Yanoff, 5th Ed.
- The Wills Eye Manual:Office & ER Diagnosis & Treatment of Eye Disease, Gervasio, et al, 8th Ed, \$100.00

OPTM 739: Clinical Neuro-optometry

- No Textbook Required

OPTM 744: Optometric Gerontology

- No Textbook Required

OPTM 745: Low Vision

- Low Vision Rehabilitation, either version of etext: ibook: Ridgevue Publishing, Jamara, et al, OR Kindle/Amazon: <https://www.amazon.com/dp/B083BFCPF2>, \$9.99 ea.

OPTM 753: Optometry Clinic 3-3

- No textbook required

OPTM 759: Clinical Problem Solving 3

- No textbook required

Fourth Professional Year

Summer Semester

OPTM 811: Web Seminar 1

OPTM 854: Clinical Practice 1

Required Equipment:

- As required by the rotation site and approved by the Externship Director.

Required Texts:

- As required by the rotation site and approved by the Externship Director.

Fall Semester

OPTM 812: Web Seminar 2

OPTM 855: Clinical Practice 2

Required Equipment/Texts:

-As required by the rotation site and approved by the Externship Director.

Spring Semester

OPTM 813: Web Seminar 3

OPTM 817: Research Project

OPTM 856: Clinical Practice 3

Required Equipment/Texts:

-As required by the rotation site and approved by the Externship Director.

SUMMARY OF EXPENSES

First Professional Year

	<u>Required</u>
Equipment	\$3,385.49
Texts	\$1,048.59
Total	\$4,434.08

*Laptop cost varies
(required for exams for duration of program)

Second Professional Year

Equipment/Other	\$4,834.95
Texts	\$ 686.29
Total	\$5,521.24

Third Professional Year

Equipment	\$ 565.20
Texts	\$2,391.58
National Boards/Part 1	\$1,060.00 (Required to take for Graduation) (Required to register/pay in fall for spring date)
Total	\$4,016.78
Class Composite (optional)	\$ 20.00 (Optional packages range from \$43.99 - \$99.99)

Fourth Professional Year

Equipment:	\$70.00 As required by rotation site and approved by the Externship Director
Texts:	As required by rotation site and approved by the Externship Director
National Boards/Part 2	\$1,060.00 (Required to take for Graduation)
National Boards/Part 3	\$1,060.00 (Required to take for Graduation)
Licensure Application Fee	\$232.50
DPA Cert. Application Fee	\$81.05
TPA Cert. Application Fee	\$81.05
Control Substance App. Fee	\$173.00
Total	\$2,757.60 *

* There will be traveling expenses to/from the off-campus clinics in addition to travel expenses to North Carolina for Part 3 of National Boards. Housing and meal expenses may be higher than equivalent campus expenses.

Optional Events Each Year (This is not an exhaustive list of all possible events)

Eyeball	\$35/person
Optic Cup	\$30/person
Broomball	\$15/person
Practice Crawl	\$15/person
Vision Rehab Olympics	\$5/person
SVOSH	unknown, will vary due to fundraising earned
SVOSH Clothing Sale	cost varies depending on merchandise selected

Optional Membership Dues Each Year (This is not an exhaustive list of all possible memberships)

AOA-PAC	\$30/year or \$35 would include Wine and Cheese Night
AOSA	National: \$50/year MCO: \$20/all four years
AAO	\$30*/all four years *this reduces to \$15 if 100% of class participates
MOSA	\$20/all four years
NOSA	\$25/year

MISCELLANEOUS

TUITION (2022-2023)

Professional Tuition Rate: \$906 per credit hour plus refundable fees

10 Total Semesters for Doctor of Optometry program.

NOTE: On-line Learning Fee will be assessed at \$12 per credit hour to all on-line courses to support on-line instruction.

HOUSING/DINING RATES (2022-2023)

Anytime Meal Plans-Residential Students

Platinum Meal Plan - \$5,510.00/year

Gold Meal Plan - \$5,138.00/ year

Crimson Meal Plans - \$4,818.00/ year

East Campus Suites – Single Student

Two Bedroom Suite - \$4,209.00/semester

Four Bedroom Suite - \$3,134.00/semester

West Campus Apartments (townhouses)

Single – Two or three bedroom/12 Month Lease - \$6,968.00

Four bedroom/12 Month Lease - \$7,664.00

Family – Two bedroom/12 Month Lease - \$10,618.00

Three bedroom/12 Month Lease - \$11,605.00

Merrill Studio Suites – Non-Required Residency - \$3375/semester

Off-Campus Express Meal Plan*

125 Meals - \$915.00

75 Meals - \$567.00

50 Meals - \$412.00

25 Meals - \$222.00

* Bulldog Bucks are also available and rollover from year to year.

Please contact University Apartments at 231-591-3781 for more information.

FINANCIAL AID

Students concerned with questions of aid should contact the Financial Aid Office, Timme Center for Student Services, Ferris State University at (231) 591-2110.

**** This document is not meant to be an exhaustive list of all possible costs. ****

Prepared by Associate Dean's Office
Michigan College of Optometry