

Course Fee Details

Course ID	Course Description	Fee	Course fee details	Applicable to Online?	Contact
ART 260	Photography classes	35	Additional fees support equipment/supplies for both wet and digital processes. Fees also will offset costs to maintain software as well as maintain large format printers.	No	Corinne Diop, 8.6485 or arthistory@jmu.edu
ART 362	Photography classes	35		No	
ART 364	Photography classes	35		No	
ART 464	Photography classes	35		No	
BIO 140L&HL	Foundations of Biology I	25	Fees will be used to purchase consumable supplies such as molecular kits and for sequencing costs	No	biodept@jmu.edu
BIO 250L	Ecology and Evolution	30	Fees will be used to purchase consumable supplies for experiments with organisms, such as plants and beetles	No	biodept@jmu.edu
BIO 150L	Foundations of Biology II	30	Fees will be used for sequencing costs and to purchase consumable supplies, such as molecular kits, chemicals, and pipettes.	No	biodept@jmu.edu
BIO 240L	Genetics	30	Fees will be used to consumable purchase supplies such as growth media (yeasts, flies etc.), molecular supplies, and chemicals	No	biodept@jmu.edu
BIO 270L	Human Physiology	30	Fees will be used to purchase software licenses, respiratory filters, urine dip sticks and other consumables	No	biodept@jmu.edu
BIO 290L	Human Anatomy	30	Fees will be used to purchase consumable supplies, for upkeep and replacements of 3-D course models, computer software, dissection tools and gloves	No	biodept@jmu.edu
BIO 410L	Advanced Human Anatomy	100	Fees will be used to purchase, maintain and cremate cadavers for dissection, dissection tools, gloves, models, software and other routine supplies	No	biodept@jmu.edu
BIO 480L	Advanced Cell & Molecular Biology	30	Fees will be used to purchase supplies such as molecular kits, enzymes, chemicals, pipettes, etc.	No	biodept@jmu.edu
CHEM 131L	General Chemistry Lab I	55	The fee covers the purchase of consumable laboratory supplies, glassware, compressed gases and chemicals.	Not if 100% online. Hybrid still required fees.	chemdept@jmu.edu
CHEM 132L	General Chemistry Lab II	55	The fee covers the purchase of consumable laboratory supplies, glassware, compressed gases and chemicals.	No	chemdept@jmu.edu

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CHEM 135L	Special General Chemistry Lab I	55	The fee covers the purchase of consumable laboratory supplies, glassware, compressed gases and chemicals.	No	chemdept@jmu.edu
CHEM 136L	Special General Chemistry Lab II	55		No	
CHEM 241L	Organic Chemistry Lab I	40		No	
CHEM 242L	Organic Chemistry Lab II	40		No	
CHEM 287L	Integrated Inorganic/Organic Lab I	40		No	
CHEM 288L	Integrated Inorganic/Organic Lab II	40		No	
CHEM 351	Analytical Chemistry Lab	40		No	
CHEM 260L	Biochemistry Lab	40		No	
CHEM 366L	Biochemistry Lab	40		No	
CSD 470	Methods and Observation-SLP	95		This fee covers the cost of clinical supervision, materials and supplies.	
CSD 471	Methods and Observation-AUD	95	This fee covers the cost of clinical supervision, materials and supplies.	No	CSD Admin Assistant 8.6440
CSD 510	Seminar in Audiology	90	The course fee is to provide access to the TYPHON data management system where graduate students will enter and track their supervised clinical practicum hours, knowledge and skills. Further, the licensed SLP/AUD supervising students can "sign-off" on these hours that are required in application for the Certificate of Competency (CCC) through the American Speech-Language-Hearing Association to practice in either profession. Students have continued access to this database post-graduation at the time they complete their Clinical Fellowship (CF) and make application to ASHA.	No	CSD Admin Assistant 8.6440
CSD 581	Intern Speech Practicum	90	The course fee is to provide access to the TYPHON data management system where graduate students will enter and track their supervised clinical practicum hours, knowledge and skills. Further, the licensed SLP/AUD supervising students can "sign-off" on these hours that are required in application for the Certificate of Competency (CCC) through the American Speech-Language-Hearing Association to practice in either profession. Students have continued access to this database post-graduation at the time they complete their Clinical Fellowship (CF) and make application to ASHA.	No	CSD Admin Assistant 8.6440

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ENGR 212	Statics & Dynamics	40	<p>In the lab associated with ENGR 212 (Statics and Dynamics) students work with industry grade equipment to measure and record forces and positions. Student lab fees for ENGR 212 are solely applied to periodic maintenance and replacement of hardware used by students in the lab including load cells, string potentiometers, and National Instruments data acquisition hardware.</p> <p>Course fees will be used to maintain and upgrade laboratory equipment and maintain lab components, and consumables that are used for the course projects and lab-based exercises.</p>	No	AskEngineering@jmu.edu
ENGR 313	Circuits	50	<p>First-hand experience in the design, construction, and measurement of electronic circuits is important to develop foundational and practical knowledge about modern instrumentation and electronic devices.</p> <p>Course are used to maintain and upgrade laboratory equipment and maintain the stock of common electronic components, integrated circuits, and consumables that are used for the course projects and learning investigations.</p>	No	AskEngineering@jmu.edu
ENGR 314	Mechanics & Materials	50	<p>The course explores the governing principles of materials science and mechanics of materials with an emphasis on materials selection in the engineering design process. Topics include process-structure-property relationships, crystalline structures, mechanical properties, strength of materials, mechanical design, failure mechanisms, and an introduction to materials processing.</p> <p>Course fees are used to purchase materials and supplies for course projects lab exercises and software for the study of mechanics and materials.</p>	No	AskEngineering@jmu.edu
ENGR 331	Engineering Design III	50	Course fees are used to purchase materials and supplies for course projects lab exercises	No	AskEngineering@jmu.edu
ENGR 332	Engineering Design IV	50	Course fees are used to purchase materials and supplies for course projects lab exercises	No	AskEngineering@jmu.edu

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ENGR 411	Fundamentals of Sustainable Engineering and Design	50	Course fees are used to purchase materials and supplies for course projects lab exercises	No	AskEngineering@jmu.edu
ENGR 431	Engineering Design V	50	Course fees are used to purchase materials and supplies for course projects lab exercises	No	AskEngineering@jmu.edu
ENGR 432	Engineering Design VI	50	Course fees are used to purchase materials and supplies for course projects lab exercises	No	AskEngineering@jmu.edu

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ENGR 472	Sustainability (Tech Elective)	40	<p>For engineering and environmental science students interested in biological reactor design. Water, wastewater and air treatment are emphasized. Students must be proficient in mathematics, chemistry and thermal sciences. Quantitative relationships are derived for characterizing water quality, designing biological reactors and modeling treatment systems. Systems are described by mass and energy balances that relate pollutant removal efficiency to process input parameters.</p> <p>Course fees will be used to maintain and upgrade laboratory equipment and maintain lab components, and consumables that are used for the course projects and learning investigations.</p>	No	AskEngineering@jmu.edu
ENGR 231	Sophomore Design I	30	<p>During the Sophomore Design Course Sequence (ENGR 231 and ENGR 232), students engage in a year-long service learning project focused on helping a member of the local community with a physical disability gain independence and exercise opportunities through the design and construction of a human-powered vehicle. Students work with the client as they follow the engineering design process to understand each client's disability and unique needs. Lab fees will support the purchase of resources necessary to teach students to visualize, analyze, and construct small scale and full size design prototypes. The course culminates with students demonstrating functional prototypes to their client and the JMU Community.</p>	No	AskEngineering@jmu.edu

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ENGR 232	Sophomore Design II	30	During the Sophomore Design Course Sequence (ENGR 231 and ENGR 232), students engage in a year-long service learning project focused on helping a member of the local community with a physical disability gain independence and exercise opportunities through the design and construction of a human-powered vehicle. Students work with the client as they follow the engineering design process to understand each client's disability and unique needs. Lab fees will support the purchase of resources necessary to teach students to visualize, analyze, and construct small scale and full size design prototypes. The course culminates with students demonstrating functional prototypes to their client and the JMU Community.	No	AskEngineering@jmu.edu
ENGR 112	Introduction to Engineering	25	Introduces students to the engineering profession by emphasizing learning through hands-on projects and practical applications. Students engage in a wide range of laboratory related activities from training on the use of hand tools and machines, completing modules on engineering applications of scientific principles, reverse engineering of manufactured products and class capstone projects.	No	AskEngineering@jmu.edu
ENGR 311	Thermo-Fluids I	25	General replacement of consumables such as thermocouples and thermocouple adhesive tape; cartridge heaters; various oils and glycerin for viscosity testing, foam insulation (sheets and tubing). Maintenance and upgrade of existing equipment including the fluid hydraulic benches.	No	AskEngineering@jmu.edu
ENGR 312	Thermo-Fluids II	25	Replacement of frequent-usage items such as thermoelectric coolers for mini-project, thermocouples, and thermocouple adhesive connection tape. Maintenance and replacement of the attachments and tubing for the fluid hydraulic benches, in addition to the development and manufacture of test models for wind and water tunnel experiments.	No	AskEngineering@jmu.edu

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GEOL 110L	Physical Geology Lab	25	This fee covers costs of materials used in labs (Acid, replacement of rock and mineral specimens, mineral hardness test kit materials, replacement of maps, software/hardware replacement, etc.)	No	Steve Leslie (geolhead@jmu.edu)
GEOL 230	Evolution of Earth	25	This fee covers cost of vehicles for field trips and materials used in labs (Acid, replacement of rock and mineral specimens, mineral hardness test kit materials, replacement of maps, software/hardware replacement, etc.)	No	Steve Leslie (geolhead@jmu.edu)
GEOL 387	Stratigraphy, Structure and Tectonics	25	This fee covers cost of vehicles for field trips and materials used in labs (Acid, replacement of rock and mineral specimens, mineral hardness test kit materials, replacement of maps, software/hardware replacement, etc.)	No	Steve Leslie (geolhead@jmu.edu)
HM 312	HM Culinary Arts- the purpose of the fee is to cover the expenses of providing food for the culinary lab.	150	Students enrolled in HM 312 will pay a culinary lab fee. This fee is intended to offset the cost of the food, condiments, and supplies students use when learning various cooking and food preparation techniques.	No	Hospitality Sport & Rec Management hartschool@jmu.edu 8/5174
ARCD 200	Architectural Design classes	40	Additional fees support equipment/supplies needed for fabrication. Fees also will offset costs to maintain design-specific software as well as maintain an ability to print in medium to large format.	No	School of Art, Design and Art History art-arthistory@jmu.edu
ARCD 220	Architectural Design classes	40	Additional fees support equipment/supplies needed for fabrication. Fees also will offset costs to maintain design-specific software as well as maintain an ability to print in medium to large format. Additional fees support equipment/supplies needed for fabrication, i.e., welding, woodworking. Fees also will offset costs needed to maintain design software.	No	School of Art, Design and Art History art-arthistory@jmu.edu
ARCD 300	Architectural Design classes	40	Additional fees support equipment/supplies needed for fabrication. Fees also will offset costs to maintain design-specific software as well as maintain an ability to print in medium to large format. Course Description: Traditional and contemporary analytical laboratory and field techniques used in environmental quality monitoring are surveyed. Emphasis is placed on understanding the physical, chemical and biological basis of these techniques. Hands-on laboratory	No	School of Art, Design and Art History art-arthistory@jmu.edu
ARCD 330	Architectural Design classes	40		No	
ARCD 400	Architectural Design classes	40		No	
INDU 200	Industrial Design classes	40		No	
INDU 202	Industrial Design classes	40		No	

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			<p>and field work will be emphasized, in addition to quality control/assurance of environmental data.</p> <p>Recurring Costs: The course includes weekly field and/or laboratory experiments that include water, soil, and air sampling and analysis. These activities incur a range of costs for consumable supplies, specialized software, and equipment calibration, replacement, and repair.</p> <p><i>Consumable supplies</i></p> <table border="1" data-bbox="800 573 1516 1122"> <tr> <td data-bbox="800 573 1108 683">Sample containers</td> <td data-bbox="1108 573 1346 683">Sample labels</td> <td data-bbox="1346 573 1516 683">Fuel for field vehicle</td> </tr> <tr> <td data-bbox="800 683 1108 794">Colilert reagents</td> <td data-bbox="1108 683 1346 794">Experimental reagents</td> <td data-bbox="1346 683 1516 794">Calibration solutions</td> </tr> <tr> <td data-bbox="800 794 1108 904">Instrument standards</td> <td data-bbox="1108 794 1346 904">Granular activated carbon</td> <td data-bbox="1346 794 1516 904">DO membranes</td> </tr> <tr> <td data-bbox="800 904 1108 1015">Disposable pipettes</td> <td data-bbox="1108 904 1346 1015">Disposable weigh boats</td> <td data-bbox="1346 904 1516 1015">Disposable gloves</td> </tr> <tr> <td data-bbox="800 1015 1108 1122">Water treatment cartridges</td> <td data-bbox="1108 1015 1346 1122"></td> <td data-bbox="1346 1015 1516 1122"></td> </tr> </table> <p><i>Specialized software</i></p> <p>ESRI ArcGIS software</p> <p><i>Equipment calibration, replacement, and repair</i></p> <table border="1" data-bbox="800 1393 1516 1502"> <tr> <td data-bbox="800 1393 1094 1502">GPS units</td> <td data-bbox="1094 1393 1339 1502">Ion chromatograph</td> <td data-bbox="1339 1393 1516 1502">Atomic absorption</td> </tr> </table>	Sample containers	Sample labels	Fuel for field vehicle	Colilert reagents	Experimental reagents	Calibration solutions	Instrument standards	Granular activated carbon	DO membranes	Disposable pipettes	Disposable weigh boats	Disposable gloves	Water treatment cartridges			GPS units	Ion chromatograph	Atomic absorption		
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INDU 220	Industrial Design classes	40	Additional fees support equipment/supplies needed for fabrication, i.e., welding, woodworking. Fees also will offset costs needed to maintain design software.	No	Audrey Barnes, 8.7670 or art-arthistory@jmu.edu															
INDU 300	Industrial Design classes	40	Additional fees support equipment/supplies needed for fabrication, i.e., welding, woodworking. Fees also will offset costs needed to maintain design software.	No	Audrey Barnes, 8.7670 or art-arthistory@jmu.edu															
ISAT 320	Environment Sector Lab	35		No	AskISAT@jmu.edu															
ISAT 305	Applied Biotechnology Lab	35		No																
ISAT 300	Instrumentation and Measurement	35		No																
ISAT 495	Children's Engineering	35		No																
ISCI 171	Earth and Planetary Science for Teachers	25	<p>Course Description: The fundamental nature of measurement in the practice of science is explored, as well as how and why measurements are taken and what the representative instrumentation is. The focus is on data collection in science such as measuring physical properties and biometrics. Students are introduced to statistical tools for analyzing data and visualization of data.</p> <p>Recurring Costs</p> <ul style="list-style-type: none"> • Voltmeters, stopwatches, other small equipment (replacement, upgrades) 	No	AskISAT@jmu.edu															

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			<ul style="list-style-type: none"> Batteries, miscellaneous electronics components such as resistors and op-amps (expendables) LabView software (annual license) Data acquisition hardware (replacement and upgrade) Reagents for spectrometry and pH lab experiments (expendables) 		
MUAP 200	Bachelors Applied Lessons (Secondary)	175	This fee partially offsets the cost of private applied music lessons.	No	schoolofmusic@jmu.edu
MUAP 214	Bachelors Applied Lessons (Musical Theatre)	175	This fee partially offsets the cost of private applied music lessons.	No	schoolofmusic@jmu.edu
MUAP 237	Band Instruction	150	<p>Course Description: Private (one on one) applied music lessons for non-music majors and music majors seeking a secondary lesson. All other students, including first year students and transfer students entering in an undeclared major status, who desire applied instruction will be accommodated after declared majors and minors have been scheduled and if time permits.</p> <p>This fee partially offsets the cost of private applied music lessons.</p>	No	schoolofmusic@jmu.edu
MUAP 300	Bachelors Applied Lessons (Music Majors)	175	<p>Course Description: Private (one on one) applied lessons are basic areas of study for all musical theatre majors.</p> <p>This fee partially offsets the cost of private applied music lessons.</p>	No	schoolofmusic@jmu.edu
MUAP 600	Masters Applied Lessons	175	This fee partially offsets the cost of instruments, uniforms, dry cleaning, transportation, food and lodging. (Note: additional costs for lost or damaged items may also be charged)	No	schoolofmusic@jmu.edu
MUAP 700	DMA Applied Lessons	175	Course Description: Private (one on one) applied lessons are basic areas of study for all music majors. All other students, including first year students and transfer students entering in an undeclared major status, who desire applied	No	schoolofmusic@jmu.edu

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			<p>instruction will be accommodated after declared majors and minors have been scheduled and if time permits.</p> <p>This fee partially offsets the cost of private applied music lessons.</p>		
NUTR 340		45	<p>Course Description: Private (one on one) applied lessons are basic areas of study for most graduate music majors. All other graduate students who desire applied instruction will be accommodated after declared majors have been scheduled and if time permits.</p> <p>This fee partially offsets the cost of private applied music lessons.</p>	No	S Jennifer Walsh (walsh5jr@jmu.edu) or Kirk Armstrong (armst2kj@jmu.edu)
NUTR 363		45	<p>Course Description: Private (one on one) applied lessons are basic areas of study for most graduate music majors. All other graduate students who desire applied instruction will be accommodated after declared majors have been scheduled and if time permits.</p> <p>This fee partially offsets the cost of private applied music lessons.</p>	No	Jennifer Walsh (walsh5jr@jmu.edu) or Kirk Armstrong (armst2kj@jmu.edu)
NUTR 446	Experimental Foods	45	<p>This fee offsets the high cost of food prepared by students during this course.</p>	No	Jennifer Walsh (walsh5jr@jmu.edu) or Kirk Armstrong (armst2kj@jmu.edu)
PHYS 140L/150L / 240L/250L	General Physics Lab I & II	25	<p>This fee offsets the high cost of food prepared by students during this course.</p>	We do not charge a fee for the online PHYS150L/250L but we do for the online PHYS140L since we provide them with take	Chris Hughes hugheswc@jmu.edu 568-8069

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				home kits.	
PSYC 203 Topic: "Research" Only*	Directed Study in Research	25	This fee offsets the high cost of food prepared by students during this course.	Yes	Department Head, psyc.jmu.edu/undergraduate , 568-6114
PSYC 403 Topic: "Research" Only*	Independent Study in Research	25	Lab fees cover expenses associated with undergraduate student research including purchase and maintenance of equipment and supplies; software license and upgrade fees; poster-printing, research and conference travel grants; and animal lab expenses.	Yes	Department Head, psyc.jmu.edu/undergraduate 568-6114
PSYC 674	Assessment I	25	Lab fees cover expenses associated with undergraduate student research including purchase and maintenance of equipment and supplies; software license and upgrade fees; poster-printing, research and conference travel grants; and animal lab expenses. Note: This is a variable-credit course; same fee applies regardless of the number of credits.	Yes	Department Head, psyc.jmu.edu/gradpsyc , 568-6439
PSYC 669	Career Development	25	Lab fees cover expenses associated with undergraduate student research including purchase and maintenance of equipment and supplies; software license and upgrade fees; poster-printing, research and conference travel grants; and animal lab expenses. Note: This is a variable-credit course; same fee applies regardless of the number of credits.	Yes	Department Head, psyc.jmu.edu/gradpsyc 568-6439
PSYC 777	Assessment II	40	Consumable testing protocols and scoring sheets	Yes	psyc.jmu.edu/gradpsyc
PSYC 874	Cognitive Assessment	25	Consumable testing protocols and scoring sheets	Yes	psyc.jmu.edu/gradpsyc
PSYC 876	Personality Assessment	40	Consumable testing protocols and scoring sheets	Yes	psyc.jmu.edu/gradpsyc
SMAD 201	Fundamental Skills I	60	Consumable testing protocols and scoring sheets	Yes	smad.jmu.edu 568-7026
SMAD 202	Fundamental Skills II	60	Consumable testing protocols and scoring sheets	Yes	smad.jmu.edu 568-7026
SMAD 203	Foundations of User Experience Design	60	The course fee covers costs for design and production software included in the Adobe Creative Cloud Suite. Applications related to image creation and manipulation, along with page layout, are included.	Yes	smad.jmu.edu 568-7026
SMAD 302	Video Production	40	The course fee covers costs for video production software as well as equipment utilized in creating audio and visual stories.	Yes	smad.jmu.edu 568-7026
SMAD 309	Video Journalism	60	The course fee covers costs for design and production software included in the Adobe Creative Cloud Suite. Applications related to web graphics production and web design are included.	Yes	smad.jmu.edu 568-7026

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UNST 102	Career and Academic Planning	16	The course fee covers costs for video editing and post-production applications utilized in digital video creation.	Yes	Career & Academic Planning (540-568-6555)
3D Print	Any course using 3D Print Lab in Carrier Library, Room 101	40	Various classes offered in Carrier Library Room 101 using 3D Printers. Fee covers filament costs used in printers	No	Carrier Library libraries@jmu.edu
Grad Psyc	Supervision Assist	200	Program fee charged to cover costs of Supervision Assist computer programs	Yes	psyc.jmu.edu/gradpsyc 540/568-6439
Honors Fee	Honors College Program Fee	150		Yes	Honors College (honors@jmu.edu)