

ALL GEOGRAPHY AND GEOLOGY CLASSES	Every Year			Even Years		Odd Years		Irregular
	Fall	Winter	Summer	Fall	Winter	Fall	Winter	
ESSC 101 Weather and Forecasting						X		
ESSC 105 Climate Change in Human Times	X	X	X					
ESSC 107 Introduction to Environmental Science	X	X						
ESSC 108 Earth Science for Non-Science Majors	X	X	X					
ESSC 109 Earth Science lab for Non-Science Majors	X	X	X					
ESSC 110 The Dynamic Earth System	X	X	X					
ESSC 111 The Earth System Through Time	X	X						
ESSC 114 Geology of National Parks			X					
ESSC 120 Dinosaurs, Mammoths, and Trilobites								X
ESSC 202 Earth Science for Elementary Teachers	X	X	X					
ESSC 208 Natural Environmental Hazards		X						X
ESSC 212 Weather, Climate, and the Earth System	X	X						
ESSC 227 Topographic Maps		X						
ESSC 228 Mineralogy	X							
ESSC 229 Rocks and Minerals		X						
ESSC 300 Introduction to Hydrology	X	X	X					
ESSC 303 Field Geography								X
ESSC 307 Essentials of Oceanography for Elem. Teachers								X
ESSC 311 Weather and Climate for Elementary Teachers	X	X						X
ESSC 312 Essentials of the Geosphere for Elem. Teachers	X							
ESSC 315 Water and the Environment of Elem. Teachers								X
ESSC 320 Oceanography	X	X						
ESSC 324 Weather				X				
ESSC 325 Geomorphology		X						
ESSC 326 Structural Geology	X							
ESSC 327 Soil Science								X
ESSC 329 Igneous and Metamorphic Petrology					X			
ESSC 330 Sedimentology and Stratigraphy							X	
ESSC 331 Paleontology	X							
ESSC 347 Methods for Teaching Secondary Earth Science		X						
ESSC 370 Glacial and Quaternary Geology				X				
ESSC 406 Nature of Science						X		
ESSC 407 Nature of Science for Elementary Teachers				X				
ESSC 422 Environmental Geochemistry							X	

ESSC 424 The Global Climate System								X
ESSC 425W Severe and Unusual Weather							X	
ESSC 430 Petroleum Geology					X			
ESSC 448 Hydrogeology						X		
ESSC 450 Lake and Coastal Processes								X
ESSC 466W Global Tectonics	X							
ESSC 485 Introduction to Remote Sensing		X						
ESSC 495 Environmental Assessment and Planning								
GEOG 100 Intro to Geospatial Science and Technology	X	X	X					
GEOG 107 Intro to Geography	X	X	X					
GEOG 110 World Regions	X	X	X					
GEOG 111 Regions and Resources								X
GEOG 112 Intro to Travel and Tourism	X							
GEOG 115 Observing The Human Landscape								X
GEOG 150 Thinking Sustainably	X	X	X					
GEOG 212 Geography of Travel and Tourism		X						
GEOG 276 Principles of Geographic Information Systems	X	X	X					
GEOG 311 History and Geography of Modern Worlds	X							
GEOG 313 Geography of Michigan	X	X	X					
GEOG 314W Geography of Russia and Neighboring States	X	X						
GEOG 315 Travel and Tourism: European Scene		X						
GEOG 318 Geography of Asia		X						
GEOG 319 Geography of Europe	X							
GEOG 320 Geography of US and Canada	X	X	X					
GEOG 321 Geography of Latin America		X						
GEOG 322 Geography of Africa	X							
GEOG 332 Urban Geography	X							
GEOG 333 Unsettled Geographies	X	X						
GEOG 335 Economic Geography	X							
GEOG 336 Tourism and Socio-Economic Development								X
GEOG 345 Geography of Resorts								X
GEOG 348 Teaching Social Studies for Elementary School	X	X						
GEOG 360 Cultural Geography		X						
GEOG 361 Geography of Population					X			
GEOG 376 Spatial Analysis	X							
GEOG 405 Aerial Photography Interpretation	X							
GEOG 441 Transportation Geography and Planning	X							
GEOG 445 Cultural Tourism Resources	X							

GEOG 446 Heritage Interpretation		X						
GEOG 476 Geodatabases and GIS Client Applications	X							
GEOG 480 Geographic Information Systems Project					X			
GEOG 484 GIS Customization and Programming		X						
GEOG 505 Seminar in Methods and Research	X							
GEOG 509 Geodatabases for Enterprise GIS	X							
GEOG 520 GIS Introduction for Educators								X
GEOG 531 American Cultural Landscapes		X	X					
GEOG 541 Material Cultures Studies: Learning From Objects		X						
GEOG 549 Cultural Landscape Interpretation	X							
GEOG 571 Teaching of Social Studies	X	X						
GEOG 575 Interpretation of Aerial Photography	X							
GEOG 579 Geographic Information Systems	X	X	X					
GEOG 581 Advanced Environmental Assessment	X							
GEOG 582 Remote Sensings of Earth Resources		X						
GEOG 583 Cartographic Design		X						
GEOG 584 Visual Programming of GIS Customization		X						
GEOG 585 Geographic Information Systems Applications	X							
GEOG 639 Continuous Enrollment		X						
GEOG 668 GIS Project		X						
GEOG 670 Spatial Analysis and Modeling	X							
GEOG 678 Advanced Desktop Programming for GIS Customization	X							
GEOG 683 Field Studies In Michigan								X
GHPR 335 Historic Preservation	X							
GHPR 401 Planning/Preservation Graphics	X							
GHPR 475 Architectural Nomenclature	X							
GHPR 530 Introduction to Historic Preservation	X							
GHPR 531 Preservation and Planning Law	X							
GHPR 532 Introduction to Curatorship				X				
GHPR 533 Introduction to Historic Administration								X
GHPR 538 Historic Preservation and Tourism	X							
GHPR 539 American Decorative Arts								X
GHPR 547 Problems in Architectural Interpretation		X						
GHPR 551 Historic Building Systems	X							
GHPR 552 Materials Conservation I	X							
GHPR 557 Community Development and Downtown Revitalization	X							
GHPR 558 Adaptive use of Historic Structures		X						
GHPR 559 Urban Planning/Preservation Studio		X						

GHPR 572 Funding Preservation Projects		X						
GHPR 620 Preservation Research Techniques	X							
GHPR 630 Documenting and Recording Historical Places		X						
GHPR 631 Preservation Administration and Planning		X						
GHPR 632 Interpreting the Historic House	X							
GHPR 636 Historic Preservation Field Project			X					
GHPR 638 Preserving Community Character								X
GHPR 651 Principles of Preservation Technology		X						
GHPR 652 Materials Conservation II		X						
URP 115 The American City	X	X						
URP 215 Introduction to Urban and Regional Planning	X	X						
URP 216 Readings in Urban Planning	X							
URP 276 Principles of Geographic Information Systems	X	X						
URP 306 Comprehensive Planning and Zoning		X						
URP 401 Planning/Preservation Graphics	X							
URP 409 Professional Practice for Planners								X
URP 410L Site Planning Studio		X						
URP 415W Methods of Planning Analysis	X							
URP 435 History of Urban Form and Function		X						
URP 452 Infrastructure Planning and Policy						X		
URP 459 Planning/Preservation Studio		X						
URP 460 Transportation Modeling Systems								X
URP 495 Environmental Assessment and Planning	X							
URP 505 Seminar In Methods and Research	X							
URP 552 Infrastructure Planning and Policy						X		
URP 553 Urban and Regional Planning	X							
URP 555 Comprehensive Planning		X						
URP 556 Zoning and Land Development Regulation		X						
URP 557 Community Development and Downtown Revitalization	X							
URP 559 Urban Planning/Preservation Studio		X						
URP 560 Transportation Modeling Systems								X
URP 580 Local Development Policy							X	

Geography and Geology Course Rotations 9.27.17

	Every Year			Even Years		Odd Years		
ESSC CLASSES	Fall	Winter	Summer	Fall	Winter	Fall	Winter	Irregular
ESSC 101 Weather and Forecasting	X	X						
ESSC 105 Climate Change in Human Times	X	X	X					
ESSC 107 Introduction to Environmental Science	X	X						
ESSC 108 Earth Science for Non-Science Majors	X	X	X					
ESSC 109 Earth Science lab for Non-Science Majors	X	X	X					
ESSC 110 The Dynamic Earth System	X	X	X					
ESSC 111 The Earth System Through Time	X	X						
ESSC 114 Geology of National Parks	X		X					
ESSC 120 Dinosaurs, Mammoths, and Trilobites					X			
ESSC 202 Earth Science for Elementary Teachers	X	X	X					
ESSC 208 Natural Environmental Hazards		X						X
ESSC 212 Weather, Climate, and the Earth System	X	X						
ESSC 227 Topographic Maps		X						
ESSC 228 Mineralogy	X							
ESSC 229 Rocks and Minerals		X						
ESSC 300 Introduction to Hydrology		X						
ESSC 303 Field Geography								X
ESSC 307 Essentials of Oceanography for Elem. Teachers								X
ESSC 311 Weather and Climate for Elementary Teachers	X	X						X
ESSC 312 Essentials of the Geosphere for Elem. Teachers	X							
ESSC 315 Water and the Environment of Elem. Teachers								X
ESSC 320 Oceanography	X	X						
ESSC 324 Weather				X				
ESSC 325 Geomorphology	X							
ESSC 326 Structural Geology	X							
ESSC 327 Soil Science								X
ESSC 329 Igneous and Metamorphic Petrology					X			
ESSC 330 Sedimentology and Stratigraphy							X	
ESSC 331 Paleontology	X							
ESSC 347 Methods for Teaching Secondary Earth Science		X						
ESSC 370 Glacial and Quaternary Geology		X						
ESSC 406 Nature of Science						X		
ESSC 407 Nature of Science for Elementary Teachers				X				
ESSC 422 Environmental Geochemistry							X	
ESSC 424 The Global Climate System								X
ESSC 425W Severe and Unusual Weather							X	
ESSC 430 Petroleum Geology					X			
ESSC 448 Hydrogeology						X		
ESSC 450 Lake and Coastal Processes								X
ESSC 460 Contaminant Hydrology					X			
ESSC 466W Global Tectonics	X							
ESSC 470 Quantitative Methods in Geog. And Geol.								X
ESSC 485 Introduction to Remote Sensing		X						
ESSC 495 Environmental Assessment and Planning								

GEOG CLASSES	Every Year			Even Years		Odd Years		Irregular
	Fall	Winter	Summer	Fall	Winter	Fall	Winter	
GEOG 100: Intro Geospatial Sciences and Technology	X	X	X					
GEOG 107 Intro to Geography	X	X	X					
GEOG 110 World Regions	X	X	X					
GEOG 111 Regions and Resources								X
GEOG 112 Intro to Travel and Tourism	X							
GEOG 115 Observing The Human Landscape								X
GEOG 150 Thinking Sustainably	X	X	X					
GEOG 212 Geography of Travel and Tourism		X						
GEOG 276 Priniples of Geographic Information Systems	X	X	X					
GEOG 311 History and Geography of Modern Worlds	X							
GEOG 313 Geography of Michigan	X	X	X					
GEOG 314W Geography of Russia and Neighboring States	X	X						
GEOG 315 Travel and Tourism: European Scene		X						
GEOG 318 Geography of Asia		X						
GEOG 319 Geography of Europe	X							
GEOG 320 Geography of US and Canada	X	X	X					
GEOG 321 Geography of Latin America		X						
GEOG 322 Geography of Africa	X							
GEOG 332 Urban Geography	X							
GEOG 333 Unsettled Geographies	X	X						
GEOG 335 Economic Geography	X							
GEOG 336 Tourism and Socio-Economic Development								X
GEOG 345 Geography of Resorts								X
GEOG 348 Teaching Social Studies for Elementary School	X	X						
GEOG 360 Cultural Geography		X						
GEOG 361 Geography of Population					X			
GEOG 376 Spatial Analysis	X							
GEOG 405 Aerial Photography Interpretation	X							
GEOG 441 Transportation Geography and Planning	X							
GEOG 445 Cultural Tourism Resources	X							
GEOG 446 Heritage Interpretation		X						
GEOG 476 Geodatabases and GIS Client Applications	X							
GEOG 480 Geographic Information Systems Project					X			
GEOG 484 GIS Customization andd Programming		X						
GEOG 505 Seminar in Methods and Research	X							
GEOG 509 Geodatabases for Enterprise GIS	X							
GEOG 520 GIS Introduction for Educators								X
GEOG 531 American Cultural Landscapes		X	X					
GEOG 541 Material Cultures Studies: Learning From Objects		X						
GEOG 549 Cultural Landscape Interpretation	X							
GEOG 571 Teaching of Social Studies	X	X						
GEOG 575 Interpretation of Aerial Photography	X							
GEOG 579 Geographic Information Systems	X	X	X					
GEOG 581 Advanced Environmental Assessment	X							
GEOG 582 Remote Sensings of Earth Resources		X						
GEOG 583 Cartographic Design		X						
GEOG 584 Visual Programming of GIS Customization		X						
GEOG 585 Geographic Information Systems Applications	X							
GEOG 639 Continuous Enrollment		X						
GEOG 668 GIS Project		X						
GEOG 670 Spatial Analysis and Modeling	X							
GEOG 678 Advanced Desktop Programming for GIS Customization	X							
GEOG 683 Field Studies In Michigan								X

	Every Year			Even Years		Odd Years		
GHPR CLASSES	Fall	Winter	Summer	Fall	Winter	Fall	Winter	Irregular
GHPR 335 Historic Preservation	X							
GHPR 401 Planning/Preservation Graphics	X							
GHPR 475 Architectural Nomenclature	X							
GHPR 530 Introduction to Historic Preservation	X							
GHPR 531 Preservation and Planning Law	X							
GHPR 532 Introduction to Curatorship				X				
GHPR 533 Introduction to Historic Administration								X
GHPR 538 Historic Preservation and Tourism	X							
GHPR 539 American Decorative Arts								X
GHPR 547 Problems in Architectural Interpretation		X						
GHPR 551 Historic Building Systems	X							
GHPR 552 Materials Conservation I	X							
GHPR 557 Community Development and Downtown Revitalization	X							
GHPR 558 Adaptive use of Historic Structures		X						
GHPR 559 Urban Planning/Preservation Studio		X						
GHPR 572 Funding Preservation Projects		X						
GHPR 620 Preservation Research Techniques	X							
GHPR 630 Documenting and Recording Historical Places		X						
GHPR 631 Preservation Administration and Planning		X						
GHPR 632 Interpreting the Historic House	X							
GHPR 636 Historic Preservation Field Project			X					
GHPR 638 Preserving Community Character								X
GHPR 651 Principles of Preservation Technology		X						
GHPR 652 Materials Conservation II		X						

URP CLASSES	Every Year			Even Years		Odd Years		Irregular
	Fall	Winter	Summer	Fall	Winter	Fall	Winter	
URP 115 The American City	X	X						
URP 215 Introduction to Urban and Regional Planning	X	X						
URP 216 Readings in Urban Planning	X							
URP 276 Principles of Geographic Information Systems	X	X						
URP 306 Comprehensive Planning and Zoning		X						
URP 401 Planning/Preservation Graphics	X							
URP 409 Professional Practice for Planners								X
URP 410L Site Planning Studio		X						
URP 415W Methods of Planning Analysis	X							
URP 435 History of Urban Form and Function		X						
URP 452 Infrastructure Planning and Policy						X		
URP 459 Planning/Preservation Studio		X						
URP 460 Transportation Modeling Systems								X
URP 495 Environmental Assessment and Planning	X							
URP 505 Seminar In Methods and Research	X							
URP 552 Infrastructure Planning and Policy						X		
URP 553 Urban and Regional Planning	X							
URP 555 Comprehensive Planning		X						
URP 556 Zoning and Land Development Regulation		X						
URP 557 Community Development and Downtown Revitalization	X							
URP 559 Urban Planning/Preservation Studio		X						
URP 560 Transportation Modeling Systems								X
URP 580 Local Development Policy							X	