Below is the **TENTATIVE** two-vear course offering plan

CIVI. 1100 Discovering Civil and Environmental Engineering CIVI. 1160 Civil Engineering and Modern Society CIVI. 1170 Civil Engineering and Modern Society CIVI. 1170 Cilimate Change, Big History and Sustainability CIVI. 1170 Civil. 1170 Cilimate Change, Big History and Sustainability CIVI. 1170 Civil.	Below is	the <b>TENTATIVE</b> two-year course offering plan				
CWI.150	Course					2026 Spring
CPU_1190	CIVL 1100	0 0			✓	√ <u></u>
CHI   1997   CHI				✓		
CWI. 1210   Statis		0 0 0 1				
CHI   2007   Industrial and IBMT Training			<b>√</b>		,	
CWI. 2100   Statiss		Ü			<b>V</b>	
CWI. 21-00   Modeling Systems with Uncertainties		3	,	<b>√</b>	,	<b>Y</b>
CWL 2160   Modeling Systems with Uncertainties			V	((Ci)	· ·	/(C-n-i-n-n)
CHU 1210	CIVL 2120	Mechanics of Materials				
CHU   1.210	CIVII 2160	Madalina Contanta mith Harmtaintia	-/	✓ (Summer)	-/	✓ (Summer)
CHU 2410			•	1	•	1
CHU   2510						
COVID-2010   Construction Materials		Ü				
CMT. 5210			_	•		<b>'</b>
CHU. 3.10   Structural Analysis   CHU. 3.120   Water and Wastewater Engineering			v	<i></i>	•	1
CWL 3210   Control   Con		Ü	<b>✓</b>	•	<b>✓</b>	,
GUL 3420 Water and Wasterward Fagineering CWL 3510 CWL 35		·		<b>/</b>		<b>/</b>
CUV. 310   Ilydrosystem Engineering		Š				
CWL 340			✓		✓	
CIVL 3740   Euchemical Analysis and Design				✓		<b>√</b>
CWL 4340   Geotechnical Analysis and Design		·	✓		✓	
CIVL 1400T Applications of Artificial Intelligence in Remote Sensing CIVL 1400V Green Technology for Sustainable Development CIVL 1400V Green Technology for Sustainable Development CIVL 1410V Green Technology for Sustainable Development CIVL 1410 Advanced Construction with Al and Robotics CIVL 14210 Advanced Construction with Al and Robotics CIVL 14210 Simulation of Construction with Al and Robotics CIVL 14210 Simulation of Construction with Al and Robotics CIVL 14210 Construction law and Contract Administration CIVL 14210 Construction law and Contract Administration CIVL 14210 Construction law and Contract Administration CIVL 14210 Simulation of Construction Law and Contract Administration CIVL 14210 Simulation of Construction Law and Contract Administration CIVL 14310 Repress yose membrane and Contract Administration CIVL 14310 Simulation of Construction Law and Contract Administration CIVL 14310 Construction Law and Contract Administration CIVL 14310 Construction Law and Contract Administration CIVL 14310 Computer Methods of Structural Paparation CIVL 1430 Computer Methods of Structural Analysis CIVL 14310 Computer Methods of Structural Analysis CIVL 14310 Computer Methods of Structural Analysis CIVL 1430 Construction Analysis and Medicution CIVL 1440 Construction Construction Analysis and Medicution CIVL 1440 Construction Construction Analysis and Medicution CIVL 1440 Construction Construction Methods CIVL 1440 Construction Construction Methods CIVL 1440 Construction Methods analysis and Medicution CIVL 1440 Construction Methods Analysis and Medicution CIVL 1440 Construction Methods CIVL 1440 Construction Construction Construction Methods CIVL 1440 Construction Construction Construction Construction Methods CIVL 1440 Construction				✓		✓
CIVI. 141001   Geographic Information System for Smart City		, ,		✓		
CIVL 1410W Green Technology for Sustainable Development CIVL 4210 Advanced Construction with A1 and Robotics CIVL 4210 Advanced Construction with A1 and Robotics CIVL 4210 Scientific Machine Learning for Infrastructure Systems CIVL 4224 Scientific Machine Learning for Infrastructure Systems CIVL 4224 Construction Law and Contract Administration CIVL 4230 Smart Infrastructure Sensing and Data Analytics CIVL 4230 Smart Infrastructure Sensing and Data Analytics CIVL 4320 Smructural Steel Design CIVL 4330 Structural Steel Design CIVL 4330 Structural Steel Design CIVL 4340 Prestressed Concrete Design CIVL 4340 Prestressed Concrete Design CIVL 4340 Prestressed Concrete Design CIVL 4340 Environmental Implementing Artificial Intelligence in Smart Buildings CIVL 4340 Environmental Impact Assessment CIVL 4340 Environmental Impact Assessment CIVL 4430 Environmental Impact Assessment CIVL 4440 Process Design of Environmental Engineering Facilities CIVL 4440 Cilinate Modeling and Risk Assessment CIVL 4440 Introduction to Wind Effects on Buildings and CivL 4440 Introduction to Ward Analysis and Reduction CIVL 4460 Introduction to Data Analytics for Smart Transportation Systems CIVL 4610 Introduction to Data Analytics for Smart Transportation Systems CIVL 4610 Introduction to Bata Analytics for Smart Transportation Systems CIVL 4610 Introduction to Smart City Economics CIVL 4610 Introduction to Smart City Economics CIVL 4610 Introduction of Smart City Economics CIVL 4610 Introduction Smart City Economics CIVL 4610 Introduction Smart City Economics CIVL 4610 Introduction Materials Technology CIVL 4710 Soil Slope Engineering CIVL 4730 Soil Slope Engineering CIVL 4740 Construction Materials Technology CIVL 4750 Construction Materials Technology CIVL 4750 Virtual Engineering and Electromatics of Construction CivL 5300 Mineral Soil Mechanics CIVL 5300 Principles of Project Finance CIVL 5300 Advanced For Mechanics CIVL 5300 Virtual Engineering and Decision CIVL 5300 Virtual Engineering and Soil Dynamics CIVL 5350 Construction Mecha			✓		✓	
CIVL 4100W   Biomass and Blosolids Management				✓		
CIVI_4210	CIVL 4100W					
CIVI. 4270   Scientific Machine Learning for Infrastructure Systems	CIVL 4210	Ü	✓		✓	
CIVL 4240 Smart Infrastructure Sensing and Data Analytics CIVL 4270 Construction Law and Contract Administration CIVL 4310 Energy System Modelling for Buildings and Cities V V CIVL 4320 Structural Steel Design V V CIVL 4320 Structural Steel Design V V V CIVL 4340 Prestressed Concrete Design CIVL 4340 Prestressed Concrete Design CIVL 4340 Prestressed Concrete Design CIVL 4370 Computer Methods of Structural Analysis CIVL 4370 Computer Methods of Structural Analysis CIVL 4370 Computer Methods of Structural Analysis CIVL 4370 Environmental Impact Assessment CIVL 4380 Environmental Impact Assessment CIVL 4380 Environmental Impact Assessment CIVL 4430 Carbon Footprint Analysis and Reduction CIVL 4470 Air Quality Control and Management CIVL 4470 Air Quality Control and Management CIVL 4470 Air Quality Control and Management CIVL 4470 Introduction to Data Analytics for Smart Transportation Systems CIVL 4460 Introduction to Smart City Economics CIVL 4460 Introduction to Smart City Economics CIVL 4470 Numerical Solutions to Geotechnical Problems CIVL 4700 Numerical Solutions to Geotechnical Problems CIVL 4710 Soil Slope Engineering CIVL 4750 Numerical Solutions to Geotechnical Problems CIVL 4810 Construction Materials Technology CIVL 4790 Civil Engineering Capstone Design Project CIVL 5210 Principles of Project Finance CIVL 5220 Elimane Design Project CIVL 5230 Finite Element Methods CIVL 5230 Finite Element Methods CIVL 5230 Finite Element Methods CIVL 5450 Physical Chemical Problems CIVL 5450 Physical Chemical Construction CIVL 5450 Physical Chemical Const	CIVL 4220	Scientific Machine Learning for Infrastructure Systems		✓		✓
CIVL 4310 Energy System Modelling for Buildings and Cities  V V V  CIVL 4320 Structural Steel Design V V V  CIVL 4340 Prestressed Concrete Design CIVL 4340 Prestressed Concrete Design CIVL 4340 Immediation to Structural Dynamics V V V  CIVL 4370 Computer Methods of Structural Analysis CIVL 4370 Computer Methods of Structural Analysis CIVL 4370 Computer Methods of Structural Analysis CIVL 4370 Environmental Impact Assessment CIVL 4430 Environmental Impact Assessment CIVL 4430 Environmental Impact Assessment CIVL 4430 Carbon Footprint Analysis and Reduction CIVL 4440 Air Quality Control and Management CIVL 4440 Air Quality Control and Management CIVL 4440 Air Quality Control and Management CIVL 4440 Introduction to Data Analytics for Smart Transportation Systems CIVL 4461 Introduction to Smart City Economics CIVL 4464 Introduction to Smart City Economics CIVL 4460 Introduction to Smart City Economics CIVL 4470 Numerical Solutions to Geotechnical Problems CIVL 4710 Soil Slope Engineering CIVL 4750 Numerical Solutions to Geotechnical Problems V CIVL 4750 Numerical Solutions to Geotechnical Problems V CIVL 4750 Construction Materials Technology V CIVL 4750 Construction Materials Technology V CIVL 4750 Construction Materials Technology V CIVL 4750 Numerical Solutions to Geotechnical Problems V CIVL 4750 Civil Engineering (Capstone Design Project V CIVL 5210 Principles of Project Finance CIVL 5220 Finance and Operations in Civil Engineering CIVL 5230 Finance and Operations in Civil Engineering CIVL 5230 Finate Element Methods V CIVL 5450 Aguate Chemistry V CIVL 5450 Nader Freatment CIVL 5450 National Matery Wastewater Treatment CIVL 5450 National Matery Wastewater Treatment V CIVL 5450 National Matery Wastewater Treatment CIVL 5450 National Matery Civil 5450 National Solutions to Geotechnical Solutions	CIVL 4240			✓		✓
CIVL 4320 Structural Steel Design  CIVL 4330 Introduction to Structural Dynamics  CIVL 4330 Introduction to Structural Dynamics  CIVL 4360 Implementing Artificial Intelligence in Smart Buildings  CIVL 4360 Implementing Artificial Intelligence in Smart Buildings  CIVL 4360 Implementing Artificial Intelligence in Smart Buildings  CIVL 4370 Computer Methods of Structural Analysis  CIVL 4380 Introduction to Wind Effects on Buildings and Structures  CIVL 4380 Introduction to Wind Effects on Buildings and Structures  CIVL 4430 Carbon Footprint Analysis and Reduction  CIVL 44450 Carbon Footprint Analysis and Reduction  CIVL 4440 Process Design of Environmental Engineering Facilities  '	CIVL 4270	Construction Law and Contract Administration		✓		✓
Introduction to Structural Dynamics	CIVL 4310	Energy System Modelling for Buildings and Cities	✓		✓	
CIVI. 4340 Prestressed Concrete Design CIVI. 4360 Implementing Artificial Intelligence in Smart Buildings CIVI. 4370 Computer Methods of Structural Analysis CIVI. 4380 Introduction to Wind Effects on Buildings and Structures CIVI. 4380 Introduction to Wind Effects on Buildings and Structures CIVI. 4430 Environmental Impact Assessment CIVI. 4450 Carbon Footprint Analysis and Reduction CIVI. 4450 Carbon Footprint Analysis and Reduction CIVI. 4460 Process Design of Environmental Engineering Facilities  '	CIVL 4320	Structural Steel Design	✓		✓	
Implementing Artificial Intelligence in Smart Buildings	CIVL 4330	Introduction to Structural Dynamics	✓		✓	
CIVL 4370 Computer Methods of Structural Analysis  CIVL 4380 Introduction to Wind Effects on Buildings and Structures  CIVL 4430 Carbon Footprint Analysis and Reduction  CIVL 4450 Carbon Footprint Analysis and Reduction  CIVL 4450 Carbon Footprint Analysis and Reduction  CIVL 4460 Carbon Footprint Analysis and Reduction  CIVL 4460 Carbon Footprint Analysis and Reduction  CIVL 4460 Cilmate Modeling and Risk Assessment  CIVL 4480 Cilmate Modeling and Risk Assessment  CIVL 4460 Introduction to Data Analytiss for Smart Transportation Systems  CIVL 4620 Transportation System Operations  CIVL 4620 Introduction to Smart City Economics  CIVL 4710 Soil Slope Engineering Geology  CIVL 4710 Soil Slope Engineering  CIVL 4720 Soil Slope Engineering  CIVL 4740 Introduction to Materials Technology  CIVL 4750 Civil Engineering Capstone Design Project  CIVL 4750 Civil Engineering Capstone Design Project  CIVL 4750 Civil Engineering Risk, Reliability and Decision  CIVL 5210 Engineering Risk, Reliability and Decision  CIVL 5210 Principles of Project Finance  CIVL 5210 Sill And Digital Construction  CIVL 5210 Sill And Digital Construction  CIVL 5210 Finance and Operations in Civil Engineering  CIVL 5230 Finance and Operations in Civil Engineering  CIVL 5240 Biological Waste Treatment  CIVL 540 Aquatic Chemistry  CIVL 5410 Hazardous Waste Treatment  CIVL 5420 Biological Waste Treatment  CIVL 5430 Finite Element Methods  CIVL 5450 Hazardous Waste Treatment  CIVL 5450 Hazardous Waste Treatment  CIVL 5450 Hazardous Waste Treatment  CIVL 540 Cive Hazardous Waste Treatment  CIVL 540 Cive Hazardous Waste Treatment  CIVL 5510 Cive Hazardous Waste Treatment  CIVL 5520 Water Resources Systems Analysis  CIVL 5530 Finite Element Methods  CIVL 5540 Cive Hazardous Waste Treatment and Site Remediation  CIVL 5540 Cive Hazardous Waste Treatment and Site Remediation  CIVL 5540 Cive Haza	CIVL 4340	Prestressed Concrete Design		✓		✓
CIVI. 4300 Introduction to Wind Effects on Buildings and Structures  CIVI. 4430 Environmental Impact Assessment  CIVI. 4430 Environmental Impact Assessment  CIVI. 4460 Process Design of Environmental Engineering Facilities  CIVI. 4470 Air Quality Control and Management  CIVI. 4470 Air Quality Control and Management  CIVI. 4470 Air Quality Control and Management  CIVI. 4470 Introduction to Data Analytics for Smart Transportation Systems  CIVI. 44610 Introduction to Data Analytics for Smart Transportation Systems  CIVI. 4610 Introduction to Smart City Economics  CIVI. 44700 Engineering Geology  CIVI. 4700 Engineering Geology  CIVI. 47100 Soil Slope Engineering  Soil Slope Engineering  CIVI. 4750 Numerical Solutions to Geotechnical Problems  CIVI. 4750 Construction Materials Technology  CIVI. 4750 Construction Materials Technology  CIVI. 4750 Construction Materials Technology  CIVI. 4750 Civi Engineering Capstone Design Project  CIVI. 5210 Engineering Risk, Reliability and Decision  CIVI. 5210 Engineering Risk, Reliability and Decision  CIVI. 5210 Engineering Risk, Reliability and Decision  CIVI. 5220 BIM and Digital Construction  CIVI. 5230 Finace and Operations in Civil Engineering  CIVI. 5230 Finace and Operations in Civil Engineering  CIVI. 5230 Finace and Operations in Civil Engineering  CIVI. 5230 Finite Element Methods  CIVI. 5240 Physical-Chemical Water/Wastewater Treatment  CIVI. 5240 Physical-Chemical Water/Wastewater Treatment  CIVI. 5400 Aquatic Chemical Water Wastewater Treatment  CIVI. 5410 Physical-Chemical Water Wastewater Treatment  CIVI. 5420 Finite Element September Septemb	CIVL 4360	Implementing Artificial Intelligence in Smart Buildings				✓
CIVL 4450	CIVL 4370	Computer Methods of Structural Analysis		✓		✓
CIVL 4450 Carbon Footprint Analysis and Reduction  CIVL 4460 Process Design of Environmental Engineering Facilities  CIVL 4460 Air Quality Control and Management  CIVL 4480 Climate Modeling and Risk Assessment  CIVL 4480 Climate Modeling and Risk Assessment  CIVL 4610 Introduction to Data Analytics for Smart Transportation Systems  CIVL 4610 Introduction to Data Analytics for Smart Transportation Systems  CIVL 4640 Introduction to Smart City Economics  CIVL 4640 Introduction to Smart City Economics  CIVL 4710 Soil Slope Engineering Geology  CIVL 4750 Numerical Solutions to Geotechnical Problems  CIVL 4750 Numerical Solutions to Geotechnical Problems  CIVL 4750 Construction Materials Technology  CIVL 4950 Civil Engineering Capstone Design Project  CIVL 4950 Civil Engineering Engineering Civil 5400 Principles of Project Finance  CIVL 5210 Principles of Project Finance  CIVL 5220 BIM and Digital Construction  CIVL 5231 Structural Sensing and Health Monitoring  CIVL 5370 Wind Effects on Buildings and Structures  CIVL 5391 Finite Element Methods  CIVL 5302 Rying Effects on Buildings and Structures  CIVL 5402 Biological Waste Treatment  CIVL 5403 Aquatic Chemical Water/Wastewater Treatment  CIVL 5404 Biological Waste Treatment  CIVL 5404 Biological Waste Treatment  CIVL 5404 Biological Waste Treatment Analysis Aquatic Chemistry  CIVL 5405 Avanced Soil Mechanics  CIVL 5500 Water Resources Systems Analysis  CIVL 5510 Hydroclimate Data Analysis and Modelling  CIVL 5520 Water Resources Systems Analysis  CIVL 5501 Urban Transportation Networks Analysis  CIVL 5502 Good Travel Demand Analysis Advanced Soil Mechanics  CIVL 5503 Theoretical and Computational Soil Mechanics  CIVL 5504 On Soils and Waves  CIVL 5708 Soils and Waves  CIVL 5708 Soils and Waves  CIVL 5709 Gootechnical Earthquake Engineering and Soil Dynamics  CIVL 5700 Theoretical and Computational Soil Mechanics  CIVL 5700 Advanced Goorete Technology  CIVL 5700 Advanced Concrete Technology	CIVL 4380	Introduction to Wind Effects on Buildings and Structures	✓		<b>✓</b>	
CIVL 4470   Process Design of Environmental Engineering Facilities	CIVL 4430	Environmental Impact Assessment				
CIVL 4480	CIVL 4450	Carbon Footprint Analysis and Reduction		✓		✓
CIVL 4810 Climate Modeling and Risk Assessment CIVL 4610 Introduction to Data Analytics for Smart Transportation Systems CIVL 4610 Introduction to Data Analytics for Smart Transportation Systems CIVL 4700 Introduction to Smart City Economics CIVL 4700 Engineering Geology  CIVL 4700 Soil Slope Engineering CIVL 4710 Numerical Solutions to Geotechnical Problems CIVL 4710 Civl Engineering Capstone Design Project CIVL 4710 Civl Engineering Capstone Design Project CIVL 4710 Engineering Risk, Reliability and Decision CIVL 4710 Engineering Risk, Reliability and Decision CIVL 5210 Principles of Project Finance CIVL 5210 Principles of Project Finance CIVL 5220 Finance and Operations in Civil Engineering CIVL 5230 Finance and Operations in Civil Engineering CIVL 5231 Structural Sensing and Health Monitoring CIVL 5321 Structural Sensing and Health Monitoring CIVL 5330 Finite Element Methods CIVL 5410 Physical-Chemical Water/Wastewater Treatment CIVL 5420 Biological Waste Treatment CIVL 5430 Aquatic Chemistry CIVL 5430 Aquatic Chemistry CIVL 5450 Hazardous Waste Treatment Analysis CIVL 5450 Landfill Engineering and Design CIVL 5510 Hydroclimate Data Analysis and Modelling CIVL 5550 Modeling Fluid Systems CIVL 5500 Water Resources Systems Analysis CIVL 5501 Urban Transportation Networks Analysis CIVL 5502 Travel Demand Analysis CIVL 5503 Travel Demand Analysis CIVL 5504 Operation and Computation Soil Mechanics CIVL 5700 Urban Transportation Networks Analysis CIVL 5500 Urban Transportation Networks Analysis CIVL 5500 Urban Transportation Networks Analysis CIVL 5500 Urban Transportation Networks Analysis CIVL 5501 Operation Advanced Soil Mechanics CIVL 5700 Urban Transportation Networks Analysis CIVL 5700 Urban Transport	CIVL 4460	Process Design of Environmental Engineering Facilities				
CIVL 4610 Introduction to Data Analytics for Smart Transportation Systems  CIVL 4620 Transportation System Operations  CIVL 4620 Introduction to Smart City Economics  CIVL 4640 Introduction to Smart City Economics  CIVL 4700 Engineering Geology  CIVL 4710 Soil Slope Engineering  CIVL 4710 Soil Slope Engineering  CIVL 4710 Soil Slope Engineering  CIVL 4720 Numerical Solutions to Geotechnical Problems  CIVL 4750 Numerical Solutions to Geotechnical Problems  CIVL 4750 Civil Engineering Capstone Design Project  CIVL 4950 Civil Engineering Capstone Design Project  CIVL 4950 Civil Engineering Risk, Reliability and Decision  CIVL 5210 Principles of Project Finance  CIVL 5210 Principles of Project Finance  CIVL 5220 BIM and Digital Construction  CIVL 5220 BIM and Digital Construction  CIVL 5231 Structural Sensing and Health Monitoring  CIVL 5330 Wind Effects on Buildings and Structures  CIVL 5330 Wind Effects on Buildings and Structures  CIVL 5330 Wind Effects on Buildings and Structures  CIVL 540 Biological Waste Treatment  CIVL 5410 Physical-Chemical Water/Wastewater Treatment  CIVL 5420 Biological Waste Treatment  CIVL 5430 Aquatic Chemistry  CIVL 5440 Hazardous Waste Treatment and Site Remediation  CIVL 5450 Hazardous Waste Treatment and Site Remediation  CIVL 540 Landfill Engineering and Design  CIVL 5510 Water Resources Systems Analysis   CIVL 5520 Water Resources Systems Analysis  CIVL 5540 Discrete Choice Experiments and Data Analysis  CIVL 5540 Discrete Choice Experiments and Data Analysis  CIVL 5540 Discrete Choice Experiments and Data Analysis  CIVL 570 Advanced Foundation Design  CIVL 5710 Advanced Soil Mechanics  CIVL 5730 Theoretical and Computational Soil Mechanics  CIVL 5780 Soils and Waves  CIVL 5780 Soils and Waves  CIVL 5780 Soils and Waves  CIVL 5840 Advanced Mechanics of Materials  CIVL 5840 Advanced Concrete Technology	CIVL 4470	Air Quality Control and Management	✓		✓	
CIVL 4620 Transportation System Operations CIVL 4640 Introduction to Smart City Economics CIVL 4701 Introduction to Smart City Economics CIVL 4702 Engineering Geology CIVL 4710 Soil Slope Engineering CIVL 4750 Numerical Solutions to Geotechnical Problems CIVL 4750 Numerical Solutions to Geotechnical Problems CIVL 4750 Construction Materials Technology CIVL 4950 Civil Engineering Capstone Design Project CIVL 5110 Engineering Risk, Reliability and Decision CIVL 5110 Principles of Project Finance CIVL 5210 Principles of Project Finance CIVL 5220 BIM and Digital Construction CIVL 5220 BIM and Digital Construction CIVL 5230 Finance and Operations in Civil Engineering CIVL 5230 Finance and Operations in Civil Engineering CIVL 5370 Wind Effects on Buildings and Structures CIVL 5390 Finite Element Methods CIVL 5410 Biological Waste Treatment CIVL 5420 Biological Waste Treatment CIVL 5420 Biological Waste Treatment CIVL 5430 Aquatic Chemistry CIVL 5440 Landfill Engineering and Design CIVL 5450 Landfill Engineering and Design CIVL 5450 Water Resources Systems Analysis CIVL 5510 Hydroclimate Data Analysis and Modelling CIVL 5550 Modeling Fluid Systems CIVL 5550 Modeling Fluid Systems CIVL 5540 Discrete Choice Experiments and Data Analysis CIVL 5540 Discrete Choice Experiments and Data Analysis CIVL 5540 Discrete Choice Experiments and Data Analysis CIVL 5570 Advanced Soil Mechanics CIVL 5770 Unsaturated Soil Mechanics CIVL 5770 Unsaturated Soil Mechanics CIVL 5770 Unsaturated Soil Mechanics and Engineering Advanced Mechanics of Materials CIVL 5780 Soils and Waves CIVL 5780 Advanced Mechanics of Materials CIVL 5840 Advanced Concrete Technology  V CIVL 5840 Advanced Concrete Technology	CIVL 4480	Climate Modeling and Risk Assessment		✓		
CIVL 4640 Introduction to Smart City Economics	CIVL 4610					
CIVL 4700 Engineering Geology		1 , 1	✓		✓	
CIVL 4710 Soil Slope Engineering CIVL 4750 Numerical Solutions to Geotechnical Problems CIVL 4810 Construction Materials Technology CIVL 4810 Construction Materials Technology CIVL 4810 Civil Engineering Capstone Design Project CIVL 4810 Civil Engineering Risk, Reliability and Decision CIVL 5110 Engineering Risk, Reliability and Decision CIVL 5210 Principles of Project Finance CIVL 5220 BIM and Digital Construction CIVL 5230 Finance and Operations in Civil Engineering CIVL 5230 Finance and Operations in Civil Engineering CIVL 5321 Structural Sensing and Health Monitoring CIVL 5321 Structural Sensing and Health Monitoring CIVL 5320 Finite Element Methods CIVL 540 Wind Effects on Buildings and Structures CIVL 5410 Physical-Chemical Water/Wastewater Treatment CIVL 5410 Physical-Chemical Water/Wastewater Treatment CIVL 5420 Biological Waste Treatment and Site Remediation CIVL 5430 Aquatic Chemistry CIVL 5450 Hazardous Waste Treatment and Site Remediation CIVL 5460 Landfill Engineering and Design CIVL 5510 Hydroclimate Data Analysis and Modelling CIVL 5520 Water Resources Systems Analysis CIVL 5520 Water Resources Systems Analysis CIVL 5540 Travel Demand Analysis CIVL 5540 Travel Demand Analysis CIVL 5640 Discrete Choice Experiments and Data Analysis CIVL 5730 Advanced Foundation Design CIVL 5730 Theoretical and Computational Soil Mechanics CIVL 5730 Theoretical and Computational Soil Mechanics CIVL 5730 Geotechnical Earthquake Engineering and Soil Dynamics CIVL 5750 Unsaturated Soil Mechanics Advanced Mechanics of Materials CIVL 5780 Soils and Waves CIVL 5780 Advanced Mechanics of Materials CIVL 5840 Advanced Concrete Technology	CIVL 4640			✓		✓
CIVL 4750 Numerical Solutions to Geotechnical Problems  CIVL 4810 Construction Materials Technology  CIVL 4950 Civil Engineering Capstone Design Project  CIVL 5110 Engineering Capstone Design Project  CIVL 5110 Engineering Risk, Reliability and Decision  CIVL 5210 Principles of Project Finance  CIVL 5220 BIM and Digital Construction  CIVL 5220 BiM and Digital Construction  CIVL 5321 Structural Sensing and Health Monitoring  CIVL 5331 Structural Sensing and Health Monitoring  CIVL 5330 Finiance and Operations in Civil Engineering  CIVL 5370 Wind Effects on Buildings and Structures  CIVL 5390 Finite Element Methods  CIVL 540 Physical-Chemical Water/Wastewater Treatment  CIVL 5420 Biological Waste Treatment  CIVL 5430 Aquatic Chemistry  CIVL 5430 Aquatic Chemistry  CIVL 5440 Hazardous Waste Treatment and Site Remediation  CIVL 5460 Landfill Engineering and Design  CIVL 5510 Hydroclimate Data Analysis and Modelling  CIVL 5520 Water Resources Systems Analysis  CIVL 5520 Water Resources Systems Analysis  CIVL 5640 Urban Transportation Networks Analysis  CIVL 5640 Travel Demand Analysis  CIVL 5640 Discrete Choice Experiments and Data Analysis  CIVL 5640 Discrete Choice Experiments and Data Analysis  CIVL 5710 Advanced Soil Mechanics  CIVL 5730 Theoretical and Computational Soil Mechanics  CIVL 5730 Unsaturated Soil Mechanics  CIVL 5730 Unsaturated Soil Mechanics and Engineering  CIVL 5780 Soils and Waves  CIVL 5780 Advanced Mechanics of Materials  CIVL 5840 Advanced Mechanics of Materials  CIVL 5840 Advanced Concrete Technology	CIVL 4700	Engineering Geology	✓		✓	
CIVL 4810 Construction Materials Technology CIVL 4950 Civil Engineering Capstone Design Project CIVL 5110 Engineering Risk, Reliability and Decision CIVL 5210 Principles of Project Finance CIVL 5210 Principles of Project Finance CIVL 5220 BIM and Digital Construction CIVL 5230 Finance and Operations in Civil Engineering CIVL 5231 Structural Sensing and Health Monitoring CIVL 5231 Structural Sensing and Health Monitoring CIVL 5321 Structural Sensing and Health Monitoring CIVL 5320 Wind Effects on Buildings and Structures CIVL 5390 Finite Element Methods CIVL 5410 Physical-Chemical Water/Wastewater Treatment CIVL 5420 Biological Waste Treatment CIVL 5430 Aquatic Chemistry CIVL 5450 Hazardous Waste Treatment and Site Remediation CIVL 5450 Hazardous Waste Treatment and Site Remediation CIVL 5450 Landfill Engineering and Design CIVL 5520 Water Resources Systems Analysis and Modelling CIVL 5520 Water Resources Systems Analysis CIVL 5550 Modeling Fluid Systems CIVL 5610 Urban Transportation Networks Analysis CIVL 5640 Discrete Choice Experiments and Data Analysis CIVL 5640 Discrete Choice Experiments and Data Analysis CIVL 5710 Advanced Soil Mechanics CIVL 5720 Advanced Foundation Design CIVL 5730 Geotechnical Earthquake Engineering and Soil Dynamics CIVL 5730 Geotechnical Earthquake Engineering CIVL 5730 Good Advanced Hechanics of Materials CIVL 5780 Soils and Waves CIVL 5780 Advanced Mechanics of Materials CIVL 5780 Advanced Concrete Technology	CIVL 4710			✓		✓
CIVL 4950 Civil Engineering Capstone Design Project			✓		✓	
CIVL 5110 Engineering Risk, Reliability and Decision  CIVL 5210 Principles of Project Finance  CIVL 5220 BlM and Digital Construction  CIVL 5230 Finance and Operations in Civil Engineering  CIVL 5231 Structural Sensing and Health Monitoring  CIVL 5370 Wind Effects on Buildings and Structures  CIVL 5370 Wind Effects on Buildings and Structures  CIVL 5390 Finite Element Methods  CIVL 5410 Physical-Chemical Water/Wastewater Treatment  CIVL 5420 Biological Waste Treatment  CIVL 5430 Aquatic Chemistry  CIVL 5450 Hazardous Waste Treatment and Site Remediation  CIVL 5450 Hadrardous Waste Treatment and Site Remediation  CIVL 5460 Landfill Engineering and Design  CIVL 5510 Hydroclimate Data Analysis and Modelling  CIVL 5520 Water Resources Systems Analysis  CIVL 5550 Modeling Fluid Systems  CIVL 5610 Urban Transportation Networks Analysis  CIVL 5640 Discrete Choice Experiments and Data Analysis  CIVL 5710 Advanced Foundation Design  CIVL 5730 Advanced Foundation Design  CIVL 5730 Travel Demand Analysis  CIVL 5730 Advanced Foundation Design  CIVL 5730 Geotechnical Earthquake Engineering and Soil Dynamics  CIVL 5780 Soils and Waves  CIVL 5780 Soils and Waves  CIVL 5780 Advanced Mechanics of Materials  CIVL 5780 Advanced Concrete Technology		o,		✓	,	
CIVL 5210 Principles of Project Finance			✓	,	✓	
CIVL 5220 BIM and Digital Construction		<u> </u>		<b>√</b>		,
CIVL 5230 Finance and Operations in Civil Engineering CIVL 5321 Structural Sensing and Health Monitoring CIVL 5370 Wind Effects on Buildings and Structures CIVL 5390 Finite Element Methods CIVL 5410 Physical-Chemical Water/Wastewater Treatment CIVL 5420 Biological Waste Treatment CIVL 5430 Aquatic Chemistry CIVL 5450 Hazardous Waste Treatment and Site Remediation CIVL 5450 Landfill Engineering and Design CIVL 5510 Hydroclimate Data Analysis and Modelling CIVL 5520 Water Resources Systems Analysis CIVL 5550 Modeling Fluid Systems CIVL 5560 Urban Transportation Networks Analysis CIVL 560 Travel Demand Analysis CIVL 5640 Discrete Choice Experiments and Data Analysis CIVL 5700 Advanced Soil Mechanics CIVL 5710 Advanced Foundation Design CIVL 5720 Advanced Foundation Design CIVL 5730 Theoretical and Computational Soil Mechanics CIVL 5730 Unsaturated Soil Mechanics Advanced Foundation Soil Mechanics CIVL 5730 Soils and Waves CIVL 5780 Advanced Mechanics and Engineering CIVL 5780 Soils and Waves CIVL 5780 Advanced Mechanics of Materials CIVL 5880 Advanced Mechanics of Materials CIVL 5880 Advanced Concrete Technology		1 ,	,			<b>V</b>
CIVL 5321 Structural Sensing and Health Monitoring		<u> </u>	<b>V</b>		<b>V</b>	
CiVL 5370   Wind Effects on Buildings and Structures   CiVL 5390   Finite Element Methods   V		1 5 5	,	<b>√</b>		
CIVL 5390 Finite Element Methods CIVL 5410 Physical-Chemical Water/Wastewater Treatment CIVL 5420 Biological Waste Treatment CIVL 5430 Aquatic Chemistry CIVL 5450 Hazardous Waste Treatment and Site Remediation CIVL 5460 Landfill Engineering and Design CIVL 5510 Hydroclimate Data Analysis and Modelling CIVL 5510 Water Resources Systems Analysis CIVL 5550 Modeling Fluid Systems CIVL 5550 Urban Transportation Networks Analysis CIVL 5610 Urban Transportation Networks Analysis CIVL 5620 Travel Demand Analysis CIVL 5640 Discrete Choice Experiments and Data Analysis CIVL 5710 Advanced Soil Mechanics CIVL 5720 Advanced Foundation Design CIVL 5730 Theoretical and Computational Soil Mechanics CIVL 5750 Geotechnical Earthquake Engineering and Soil Dynamics CIVL 5780 Soils and Waves CIVL 5780 Soils and Waves CIVL 5840 Advanced Mechanics of Materials CIVL 5840 Advanced Mechanics of Materials CIVL 5840 Advanced Mechanics of Materials CIVL 5840 Advanced Concrete Technology			<b>V</b>			
CIVL 5410 Physical-Chemical Water/Wastewater Treatment  CIVL 5420 Biological Waste Treatment  CIVL 5430 Aquatic Chemistry  CIVL 5450 Hazardous Waste Treatment and Site Remediation  CIVL 5460 Landfill Engineering and Design  CIVL 5510 Hydroclimate Data Analysis and Modelling  CIVL 5520 Water Resources Systems Analysis  CIVL 5550 Modeling Fluid Systems  CIVL 5510 Urban Transportation Networks Analysis  CIVL 5610 Urban Transportation Networks Analysis  CIVL 5620 Travel Demand Analysis  CIVL 5640 Discrete Choice Experiments and Data Analysis  CIVL 5710 Advanced Soil Mechanics  CIVL 5720 Advanced Foundation Design  CIVL 5730 Theoretical and Computational Soil Mechanics  CIVL 5750 Geotechnical Earthquake Engineering and Soil Dynamics  CIVL 5780 Soils and Waves  CIVL 5830 Advanced Mechanics of Materials  CIVL 5840 Advanced Concrete Technology		ĕ				
Hydroclimate Data Analysis						
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