

Masters program in Reservoir Characterization: Table of course requirements by stream

	GEOLOGY	GEOPHYSICS	ENGINEERING
Required Courses	ENPE 523 – Intro to Reservoir Engineering ENCH 621 – Reservoir Simulation ENCH 661 – Geostats for Reservoir Characterization OR GLGY 697 – Advanced Geostatistics ENCH 698/GLGY 698 – Reservoir Characterization for Field Development*** HROD 789 – Optimizing Team Dynamics	ENPE 523 – Intro to Reservoir Engineering ENCH 621 – Reservoir Simulation ENCH 661 – Geostats for Reservoir Characterization OR GLGY 697 – Advanced Geostatistics ENCH 698/GLGY 698 – Reservoir Characterization for Field Development*** HROD 789 – Optimizing Team Dynamics	GOPH 559 – Geophysical Interpretation ENCH 621 – Reservoir Simulation ENCH 661 – Geostats for Reservoir Characterization OR GLGY 697 – Advanced Geostatistics ENCH 698/GLGY 698 – Reservoir Characterization for Field Development*** HROD 789 – Optimizing Team Dynamics
Optional Courses	Select 4 from the following list, 2 of which MUST be engineering: ENGG 407 – Numerical Methods in Engineering ENPE 513** – Flow in Porous Media ENPE 525 – Waterflooding and Enhanced Oil Recovery ENPE 533 – Petroleum Production Engineering ENPE 543 – Geological Characterization of Oil and Gas Reservoirs ENCH 687 – Petroleum Economics ENCH 649 – Naturally-Fractured Reservoirs GOPH 559 – Geophysical Interpretation GLGY 613 – Flow in Porous Media GLGY 595.03 – Reservoir Evaluation and Hydrocarbon Play Assessment GLGY/GOPH 649 – Petrophysical Techniques GLGY/GOPH 699.37 – Unconventional Gas Reservoir Characterization and Evaluation	Select 4 from the following list, 2 of which MUST be engineering: ENGG 407 – Numerical Methods in Engineering ENPE 513** – Flow in Porous Media ENPE 525 – Waterflooding and Enhanced Oil Recovery ENPE 533 – Petroleum Production Engineering ENPE 543 – Geological Characterization of Oil and Gas Reservoirs ENCH 687 – Petroleum Economics ENCH 649 – Naturally-Fractured Reservoirs GLGY 613 – Flow in Porous Media GLGY 595.03 – Reservoir Evaluation and Hydrocarbon Play Assessment GLGY/GOPH 649 – Petrophysical Techniques GLGY/GOPH 699.37 – Unconventional Gas Reservoir Characterization and Evaluation GLGY 593.02 – Stratigraphy and Sedimentation of clastic rocks (Q)* GLGY 593.03 – Stratigraphy and Sedimentation of carbonate rocks (Q)*	Select 4 from the following list, 2 of which MUST be geoscience: ENPE 543 – Geological Characterization of Oil and Gas Reservoirs ENCH 687 – Petroleum Economics ENCH 649 – Naturally-Fractured Reservoirs GLGY 595.03 – Reservoir Evaluation and Hydrocarbon Play Assessment GLGY/GOPH 649 – Petrophysical Techniques GLGY/GOPH 699.37 – Unconventional Gas Reservoir Characterization and Evaluation GOPH 671 – Inverse Theory and Methods GLGY 593.02 – Stratigraphy and Sedimentation of clastic rocks (Q)* GLGY 593.03 – Stratigraphy and Sedimentation of carbonate rocks (Q)*

* (Q) = quarter course taught in ½ semester; GLGY 593.02 and .03 together make-up one (1) HCE.

** Choose only one (1) of ENPE 513 or GLGY613.

*** To be taken in the final semester of study