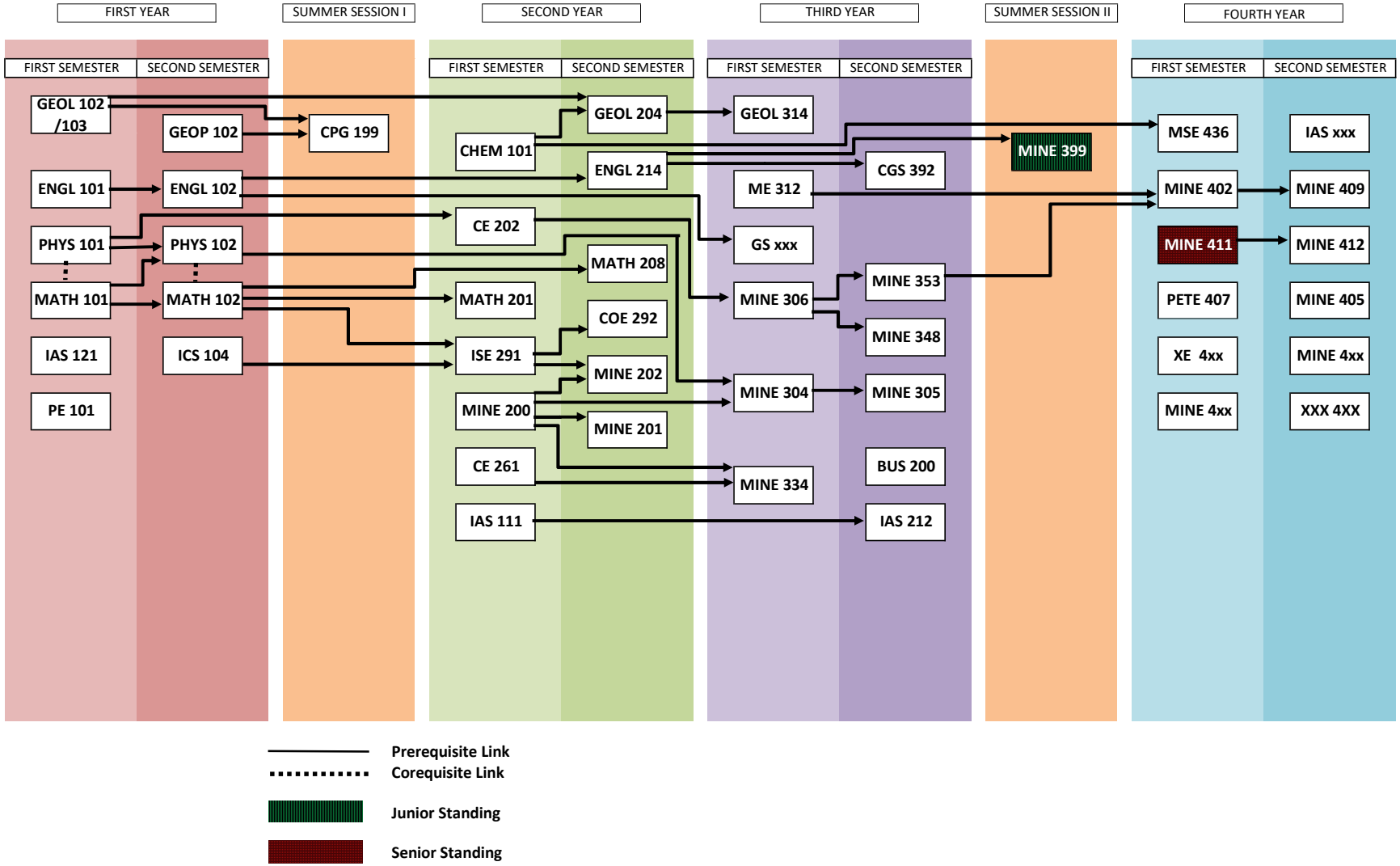MINING SCIENCE AND ENGINEERING FLOW CHART