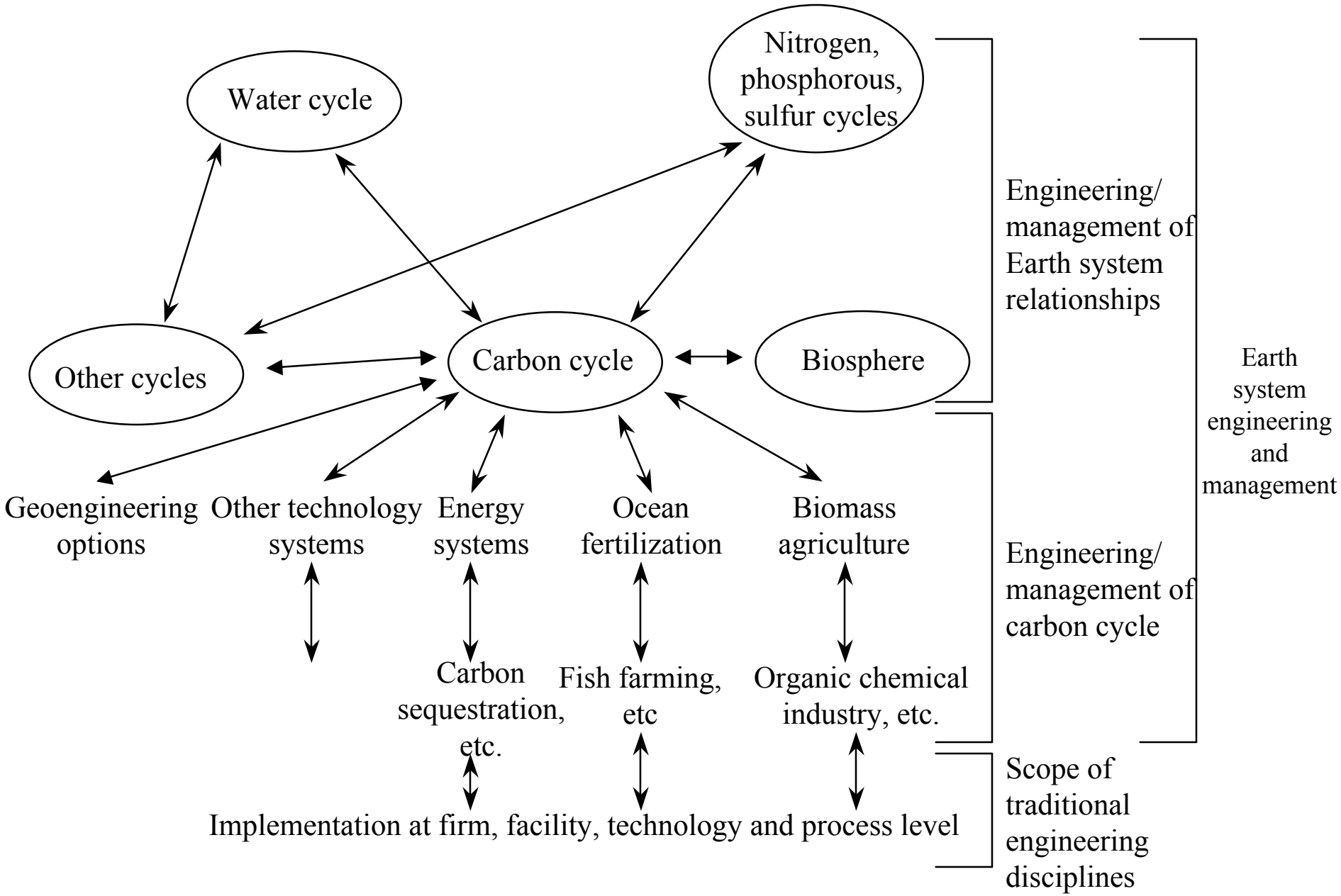Earth Systems Engineering and Management: Carbon Cycle Schematic