**Bioelectrical Impedance Analysis:**

 **Specific learning goals**

Students will be able to:

1. Students will be able to explain how resistors and capacitors behave in AC circuits in terms of the frequency dependence of current, potential and impedance.

2. Students will be able to explain the relationships between resistance, reactance, impedance and phase angle.

3. Students will be able to explain why the body can be modeled as an RC circuit.

4. Students will be able to explain how the body’s fat free mass (FFM) can be measured using bioelectrical impedance analysis (BIA).

5. Students will be able to explain how and why the body’s impedance changes with frequency.