Module title (Cailibri, 26 pt)

**Module Description:** **(Century Gothic, 14 pt, Bold)** This is a general description of the module that provides an overview of the topics included in the module along with an indication of the depth of coverage. It should be 3-5 sentences long. (Verdana, 12 pt)

**Prerequisite Knowledge:**  **(Century Gothic, 14 pt, Bold)** These are statements of what students are expected to know or be able to do in order to start this module. (Verdana, 12 pt)

**Length of Completion**: **(Century Gothic, 14pt, Bold)** What is the length of the module? (Verdana, 12pt)

Module – More than 4 and less than 10 hours

Micromodule: Between 1 and 4 hours, inclusive

Nanomodule: Less than an hour

**Level of Instruction: (Century Gothic, 14 pt, Bold)** Is this module intended for undergraduate/graduate/other? Is this module intended for majors/non-majors? (Verdana, 12 pt)

**Learning Setting: (Century Gothic, 14 pt, Bold)** Is this intended for online/in-class/hybrid (Verdana, 12 pt)

**Lab Environment: (Century Gothic, 14 pt, Bold)** Provide detailed instructions about the needed lab environment here. (Verdana, 12 pt)

**Activity/Lab Tasks: (Century Gothic, 14 pt, Bold)** Provide an overview of the learning activities and labs here. (Verdana, 12 pt)

**Lab Files that are Needed: (Century Gothic, 14 pt, Bold)** Specify the files needed to successfully run the labs. (Verdana, 12 pt)

# learning outcomes (Century Gothic, 14 pt, White, Italic)

MODULE learning oUTCOMES (VERDANA, 12 PT, ALL CAPS)

• The learning outcomes should be statements of what students should be able to DO at the end of instruction

* It would be typical for a module to have 3-6 learning outcomes

(Verdana, 12 pt)

# module Details (Century Gothic, 14 pt. White, Italic)

**Interconnection: (Verdana, 12 pt, Bold):** If the module is part of a course or includes micromodules/ nanomodules, include a list here with links to those modules. (Verdana, 12 pt)

**Instructional Files and Online Resources that are Needed:** **(Verdana, 12 pt, Bold)** This includes a list of PowerPoint slides, data files, supplementary reading, videos, etc. needed for this module. (Verdana, 12 pt)

**Assessment:** **(Verdana, 12 pt, Bold)** This provides a reference of what is included in the assessment guide and a mapping of how the assessment items cover all module and lesson learning outcomes . (Verdana, 12 pt)

# lessons (Century Gothic, 14 pt. White, Italic)

**Overview of Lessons: (Verdana, 12 pt. Bold).** If the module is broken down into smaller sections, please provide a list by title of each of these lessons.

Lesson 1 Title

Lesson 2 Title

Lesson 3 Title (Verdana, 12 pt)

**Lesson 1 Learning Outcomes: (Verdana, 12pt, Bold)**

Upon completion of this lesson:

These are statements of what students should know and be able to do at the end of each lesson. (Verdana, 12 pt)

**Lesson 1 Details: (Verdana, 12pt. Bold).** For lesson 1, please describe:

**Warm Up:** **(Verdana, 12 pt, Bold)** Each module should include a task/activity/example to 1) gain attention, giving learners a stimulus to ensure reception of coming instruction and 2) stimulate recall of prior learning. Examples might include a reading exercises, real-life example, problem, puzzle, or questions (Verdana, 12 pt)

**Lesson: (Verdana, 12 pt, Bold)** The lesson material may be an expository or inquiry approach. An expository approach is where the material to be learned is described, defined, explained either in writing or orally. For this type of approach, include the title of the presentation.pptx, if appropriate, video, reading, etc. The inquiry approach may be guided, where the instructor has mapped out a plan for students to follow on their own, and the teacher acts a facilitator while students work through the instructions, lessons and examples that have been planned for them to discover. In contrast, free discovery is providing the materials and allowing students to experiment, and observe, and describe/explain what conclusions they have drawn from their experimentation, and to justify their conclusions, based upon their observations.

If you have any additional instructor notes on files needed throughout the lecture, please include them here. (Verdana, 12 pt)

**Active Learning Activity:** **(Verdana, 12 pt, Bold)** This includes a list of each activity/task/lab that students are asked to perform, and a brief description. If there are special instructions about files needed, setup, etc., include that here. (Verdana, 12 pt)

If using a lab, please provide a pointer to the name of the file that has the lab instructions and a link to the file that has the lab solution. (Verdana, 12 pt)

Repeat the above for lesson 2 in the module.

**Lesson 2 Learning Outcomes: (Verdana, 12pt, Bold)**

Upon completion of this lesson:

These are statements of what students should know and be able to do at the end of each lesson.

**Lesson 2 Details: (Verdana, 12pt. Bold).** For lesson 2, please describe:

**Warm Up:** **(Verdana, 12 pt, Bold)**

**Lesson: (Verdana, 12 pt, Bold)** (Verdana, 12 pt)

**Active Learning Activity:** **(Verdana, 12 pt, Bold)** (Verdana, 12 pt)

Continue repeating the above for each lesson in the module.