**What’s Up with Engineering?**

**Exploration Portfolio**

**<Enter Name>**

As you work through the engineering career exploration course, use this document to record your reflections and thoughts, and make notes regarding items that you are interested in exploring further. Then use this as your guide on that journey.

**Before you begin:**

What are your thoughts as you start this exploration?

What do you know of engineering and what questions do you have?

**1) Industry Sectors and Engineering Applications**

What is an engineering activity that you are interested in, and why?

**2) Fourteen Grand Challenges**

List some grand challenges that might relate to your passion for your life and career and consider what you might explore and contribute.

**3) College Life Hacks**

What parts of college life are concerning, and how can you address those feelings?

**4) The Engineering Design Process**

Get a friend or two and work through this process to solve a challenge that your family might encounter weekly. Build a question to address, dive in, and document your work here, or use the page at the end of your journal for this exercise.

**5) A Sample First-Year Engineering College Program**

Do those ABET standards and course topics describe skills and knowledge you are interested in acquiring? Why, or why not?

**6) Programming**

Programming and Physics are a big part of engineering. What passions or areas of interest of yours were engaged in this module?

**7) Digital Supports**

Much of your lifelong learning will come digitally. What did you find here?

**8) Engineering Career Explorations**

What connections have you made with the careers depicted in this exploration?

**9) Engineering the Future**

Looking back across what you learned from this activity, identify two uplifting items and two challenging items that you need to investigate further.

**10) Reflect and Extend**

Look back through your reflections and consider how your career vision has evolved. Capture your thoughts here, and list your “next step” actions. There is an additional notes page at the end of your journal if you need more space.

**Engineering Design Process Activity**

**Additional Notes**