**So, You Want to be a Texas Aggie Engineer…**

**Exploration Portfolio**

**<Enter Name>**

As you work through the college engineering prep 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 engineering college prep course?

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

**1) The Aggie Network**

Collect your thoughts on growing your career network and ideas for Aggies Invent.

**2) Texas A&M Foundation**

What elements of the history/direction of Texas A&M do you best connect with?

**3) College Life Hacks**

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

**4) First-Year Engineering Course Sequence**

What questions do you have regarding the course sequence and ABET expectations? How do the direction and expectations align with your career vision?

**5) Engineering Thinking**

Describe a couple of elements from this section that are new to you.

**6) Python Set-up**

What are some tips for remembering PyCharm file management? There will be many files for many different labs, so consider how you will keep these organized.

**7) Python Exploration**

This is a key element of this pre-course training. Capture your thoughts here about some of the Python capabilities and include some notes and tips for you to reference as we go through the semester.

**8) Exploring Digital Supports**

Here are some tools that will help clarify concepts and reinforce connections these first few semesters. Give yourself some time here on ones that work for you.

**9) ETAM and Career Exploration**

Discuss what makes you most anxious about the ETAM process and career search. How did the materials in the module help?

**10) Calculus and Electricity**

Bullet the key takeaways that you carry with you from exploring the resources.

**11) Lab Report Production**

Explain your understanding of the purpose of a lab report and describe the content of each of the 6 primary sections of a lab report.

**12) Engineering Ethics**

Discuss how an engineer’s actions are guided by a common ethical standard. How might this standard influence tasks and activities of an engineer?

**13) Aggie Alumni Careers**

What are some aspects of the careers of Aggie engineers that you want to ensure are part of your future?

**14) Metacognition and Learning Strategies**

Enter some bullets about key takeaways for you regarding how to improve your ability to think and learn.

**15) Career Preparation**

A focus on resume production and honing your vision ‘pitch’. Spend some time thinking about how you tie your skills and knowledge and passion to your future career plans.

**16) 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**