1. **EMPIRICAL REASONING**

   **How do I prove it?**

   This goal is to think like a scientist: to use empirical evidence and a logical process to make decisions and to evaluate hypotheses. It does not reflect specific science content material, but instead can incorporate ideas from physics to sociology to art theory.

   What **idea** do I want to test? (essential question)

   What has other **research** shown?

   What is my **hypothesis**? How can I **test** it?

   What **information** (data) do I need to collect?

   How will I **collect** the information?

   What will I use as a **control** in my research?

   How **good** is my information?

   What are the **results** of my research?

   What **error** do I have?

   What **conclusions** can I draw from my research?

   How will I **present** my results?

2. **QUANTITATIVE REASONING**

   **How do I measure, compare or represent it?**

   This goal is to think like a mathematician: to understand numbers, to analyze uncertainty, to comprehend the properties of shapes, and to study how things change over time.

   How can I use numbers to **evaluate** my hypothesis?

   What **numerical** information can I collect about this?

   Can I **estimate** this quantity?

   How can I **represent** this information as a formula or diagram?

   How can I **interpret** this formula or graph?

   How can I **measure** its shape or structure?

   What **trends** do I see? How does this change over time?

   What **predictions** can I make?

   Can I show a **correlation**?
3. COMMUNICATION

How do I take in and express ideas?

This goal is to be a great communicator: to understand your audience, to write, read, speak and listen well, to use technology and artistic expression to communicate, and to be exposed to another language.

How can I write about it?

What is the main idea I want to get across (thesis)?

Who is my audience?

What can I read about it?

Who can I listen to about it?

How can I speak about it?

How can technology help me to express it?

How can I express it creatively?

How can I express it in another language?

What social systems are in place around this?

What are the ethical questions behind this?

What do I think should be done about this?

What can I do?

5. PERSONAL QUALITIES

What do I bring to this process?

This goal is to be the best you can be: to demonstrate respect, responsibility, organization, leadership, time management, and to reflect on your abilities and strive for improvement.

How can I demonstrate respect?

How can I empathize more with others?

How can I strengthen my health and well-being?

How can I communicate honestly about this?

How can I be responsible for this?

How can I persevere at this?

How can I better organize my work?

How can I manage my time?

How can I be more self-aware?

How can I take on more of a leadership role?

How can I work cooperatively with others?

How can I enhance my community through this?

4. SOCIAL REASONING

What are other people’s perspectives on this?

This goal is to think like an historian or anthropologist: to see diverse perspectives, to understand social issues, to explore ethics, and to look at issues historically.

How do diverse communities view this?

How does this issue affect different communities?

Who cares about this? To whom is it important?

What is the history of this?

How has this issue changed over time?

Who benefits and who is harmed through this issue?

What do people believe about this?
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AS A FIRST YEAR STUDENT, YOU ARE EXPECTED TO:

- Follow your interests in the real world (Informational Interviews, Shadow Days, and LTIs).
- Obtain an LTI during the first semester.
- Have a positive impact on the community (service learning, etc.).
- Meet with your full Learning Plan Team at least four times a year.
- Reflect on gaps in your learning and address them through project work.
- Create at least four Learning Plans during the year.
- Complete the work in your Learning Plans.
- Build a Portfolio of your work online. Save hard copies of your work in your Working Portfolio and your Portfolio Box.
- Exhibit your work publicly four times a year.
- Write in your journal three times per week.
- Schedule your Supercalendar every week.
- Come to school each day on time.
- Be responsible for your location and actions.
- Show respect for others and yourself.
- Take responsibility for the learning process.
- Take advantage of opportunities and make summer plans.
- Take part in mediations if conflicts arise.
- Prepare for any required state assessments.