# Syllabus Guide for the Science & Applied Science Distribution Block

**College**

**Department/ Academic Unit**

**Course prefix, Section number and Title**

**Term/ Year**

**Total Units of Course Credit:**

**Course Pre-requisite(s), Co-requisite(s), Co-convened, and/or Cross-Listed Courses:**

**Mode of Instruction:** *Identifies whether the class is face-to-face, online, blended.*

**Instructor’s Name**

**Instructor’s Contact Information:** *Office Phone; E-mail; Skype address, etc.*

**Instructor’s Availability**: *Includes such elements as office address, office hours, and/or online availability, times the instructor is typically online or may be reached by phone, amount of time within which the instructor will respond to e-mails, etc.*

**Course Purpose:** *Provide a well-articulated description of how this course addresses the following aspects:*

1. *A description of the content, knowledge, skills and abilities that will be addressed within the course.*
   1. *What is the course about?*
   2. *What will students learn?*
   3. *How will they learn it?*
2. *A specific description of how this course addresses at least one of the following purposes of a Liberal Studies Science & Applied Science Distribution Block, to explore:*
   1. *important theories, concepts, and taxonomies that are central to scientific disciplines,*
   2. *the application of scientific knowledge and technologies to problem solving,*
   3. *the impact of technology on the human condition and the natural world,*
   4. *the basis and limits of contemporary scientific knowledge, and/or*
   5. *students’ abilities to apply the scientific method to understand a variety of physical and biological phenomena.*
3. *A specific description of how this course addresses at least one of the Liberal Studies Essential Skills:*
   1. *Critical Thinking: Critical Thinking includes the skills--particularly as applied to one's own work--of articulating the meaning of statement, judging the truth of a statement while keeping in mind possible biases, and determining whether a conclusion is warranted by the evidence provided.*
   2. *Creative & Aesthetic Thinking: Creative or Aesthetic Thinking includes the skills of (1) artistic expression characteristic of the works of the fine, performing and literary arts, (2) analyzing and interpreting works of the artistic expression in systematic detail, or (3) processes of generating and evaluating innovative approaches to problem solving regardless of discipline.*
   3. *Effective Writing: Effective writing conveys information or argues a point of view using organizational structures, supporting materials, and language appropriate for the topic, purpose, and audience.*
   4. *Effective Oral Communication: Effective oral communication influences, informs, and/or connects with others by using organizational structures, supporting materials and delivery skills suitable to the topic, occasion and audience.*
   5. *Quantitative Reasoning: Quantitative reasoning is the application of numerical, visual or symbolic reasoning for the purposes of drawing inferences, understanding phenomena or making predictions.*
   6. *Scientific Inquiry: Scientific inquiry includes the skills of formulating hypotheses on the basis of observations, obtaining and analyzing data to test (i.e., refute or confirm) hypotheses, and explaining phenomena by means of accepted principle, theories or laws.*

**Course Student Learning Outcomes:** *Defines the scope (breadth and depth) of what students will have learned, practiced, or be able to demonstrate upon completion of the course.*

*Develop learning outcomes that address each of the following:*

1. *The course’s topic area content, skills, attitudes, etc.*
2. *The Essential Skill identified in the Course Purpose.*
3. *The Science & Applied Science Distribution Block purpose area(s) you selected in the Course Purpose. The following link contains examples of learning outcomes for each purpose of the SAS Distribution Block:* [*https://in.nau.edu/curriculum-and-assessment/liberal-studies-program/*](https://in.nau.edu/curriculum-and-assessment/liberal-studies-program/)

**Assignments/ Assessments of Course Student Learning Outcomes:** *Articulates key assignments/ assessments that will be used to provide clear indications of student achievement of course learning outcomes, and provides a summary of the purpose and description of the assignments/ assessments.*

*Ensure the assignments assess student learning in the:*

1. *All of the topic-area specific content and skill outcomes addressed in the course,*
2. *Science & Applied Science Distribution Block outcomes, AND*
3. *The Essential Skill selected for the course.*

*Note that assignments frequently contain overlapping outcomes (a single assignment may cover several of the outcomes in the course).*

**Grading System:** *Includes such elements as how points or percentages are allocated to each assignment/ assessment, points or percentages necessary to achieve each letter grade, etc.*

**Readings and Materials** *Lists such elements as books, readings, musical manuscripts or recordings, access to software requirements, and other such materials required for the course.*

**Class Outline or Tentative Schedule** *Includes such elements as expectations regarding the class schedule, when assignments, readings, materials, etc., need to be completed, as well as any expectations about completing work or lab or field trip requirements across the term within which the section is taught.*

**Class Policies**: *Identifies and describes class policies, including the makeup of missed assessments, academic integrity, attendance, etc.*

**University Policies**: *Approved University Policy Statements copied and pasted in the syllabus and/or provided via URL.*