QS 111 & 112 Information Literacy Outcomes
By the end of the semester, students will...
1. Be able to use the library catalog, databases, and reference materials appropriate to the subjects being researched
2. Begin to build research skills, including the ability to develop a research strategy & formulate and revise research queries using techniques such as:
   a. Boolean operators
   b. searching with subject descriptors vs. keywords
   c. limit searches (language, date, etc.)
3. Understand the proper use and evaluation of research material and how to avoid plagiarism in both written and oral communication, including the ability to paraphrase information adequately.
4. Be able to evaluate information resources on a number of dimensions (timeliness, accuracy, objectivity, etc.) and know how to distinguish primary, secondary and tertiary sources.

QS 211 Information Literacy Outcomes
In addition to practicing the QS111/112 outcomes (shaded in gray below), students will be able to:
1. Understand how primary, secondary and tertiary sources differ in science.
2. Identify the structure of primary scientific literature.
3. Use the library catalog, databases, and reference materials appropriate to the subjects being researched
4. Begin to build research skills, including the ability to develop a research strategy & formulate and revise research queries using techniques such as:
   • Boolean operators
   • searching with subject descriptors vs. keywords
   • limit searches (language, date, etc.)
5. The student will understand the proper use and evaluation of research material and how to avoid plagiarism in both written and oral communication, including the ability to paraphrase information adequately.
6. Evaluate information resources on a number of dimensions (timeliness, accuracy, objectivity, etc.) and know how to distinguish primary, secondary and tertiary sources.

QS 212 Information Literacy Outcomes
Students will continue to practice the QS111/112 outcomes (shaded in gray below) with special attention to discovering new sources of information specific to their purpose:
1. Use the library catalog, databases, and reference materials appropriate to the subjects being researched
2. Build research skills, including the ability to develop a research strategy & formulate and revise research queries using techniques such as:
   • Boolean operators
3. Understand the proper use and evaluation of research material and how to avoid plagiarism in both written and oral communication, including the ability to paraphrase information adequately.

4. Evaluate information resources on a number of dimensions (timeliness, accuracy, objectivity, etc.) and know how to distinguish primary, secondary and tertiary sources.

QS 311 Information Literacy Outcomes

Students will continue to practice skills learned in previous semesters, with special attention to discovering new sources of information specific to their purpose:

1. Use the library catalog, databases, and reference materials appropriate to the subjects being researched
2. Build research skills, including the ability to develop a research strategy & formulate and revise research queries using techniques such as:
   - Boolean operators
   - searching with subject descriptors vs. keywords
   - limit searches (language, date, etc.)
3. Understand the proper use and evaluation of research material and how to avoid plagiarism in both written and oral communication, including the ability to paraphrase information adequately.
4. Evaluate information resources on a number of dimensions (timeliness, accuracy, objectivity, etc.) and know how to distinguish primary, secondary and tertiary sources.