

Green Chemistry Final Paper Assignment

Rough draft: Due May 1st by email to sharrislovett@berkeley.edu and marty_m@berkeley.edu

In-class presentation: May 6th

Final Draft: Due at noon on May 13th by email to sharrislovett@berkeley.edu and marty_m@berkeley.edu

Every new technology must overcome a series of challenges before it will gain widespread adoption. Key challenges may be technical, social, economic, political or a combination of this factors. New biofuel technologies have broad implications for society and the environment, and will therefore need to respond to challenges in all of these areas.

For the final assignments, your group will produce a critical review of a biofuel technology and outline the opportunities for and barriers to broad adoption of the technology. To do so, your group will synthesize the work you have done on each module over the semester, including information and analysis of the technical performance, health and environmental impacts, law and policy context, and business challenges and opportunities for your technology.

The rough draft should include a title and a well-developed thesis statement (this is the main point your paper is trying to get across, summarized into one or two sentences). A detailed outline for the rest of the rough draft is fine. Each section of the draft should include a clear topic sentence that relates back to your thesis statement. Your group can decide whether each module assignment should be expanded, contracted, or included as-is into the draft.

The final paper should include 75-125 references and be < 10,000 words. It must include an abstract (a one paragraph summary of your paper), a title, an introduction that sets up the motivation for your topic, a clear thesis statement sentence, and a conclusion that synthesizes the different sections of your paper, in addition to your analysis of the technical performance, health and environmental impacts, law and policy context, and business challenges and opportunities for your technology. Attached are some guiding to questions to assist in your analysis (you do not need to answer all of these—they are meant to help guide you if you get stuck). Sub-headings within the paper are encouraged, as are diagrams, charts, graphs, or other visual aids. Clear, descriptive writing and a logical sequence to your argument are important. If your group (or a member of your group) is interested in continuing to revise this paper and submit it for publication, please indicate that on the last page.

The poster presentation Monday May 6th (reading week) 6 pm 775 Tan Hall: The poster should be formatted to fit on a `3 x `4 poster board. Marty will print the poster as long as it is submitted as a PDF or pptx file by midnight on May 5th. The poster should highlight the key finding of your team's analysis highlighting relevant drivers and barriers to adoption of this bio-based energy resource.