**CHE 230: Synthesis Proposal Template**

**[Title: Name of Target Compound]**

[Name], ID: [X], [email address]

[Location Address]

**Executive Summary (appears on front cover)**

Compound **X** (1 g) will be prepared in **n-**steps in a total of **x** hours/days. The overall cost of the synthesis is € **X.YZ**.The synthesis starts with compounds **X** and **Y** to give xxxxxx, which is then converted to ….. etc **[reagents] [describe each step in 1 sentence]**.The most dangerous substance in the procedure is **name Y** because it may cause **[X]**; precautions **abc** will be taken to mitigate the safety risks.

**Contents (appears on pg 2)**

1. Introduction
2. Experimental Section
   1. *Step 1 name of target*
   2. *Step 2 name of target*
   3. *Step 3 name of target*
3. Cost
4. Safety
5. References

**Introduction (Appears on pg 3)**

[text]; Mention key background information about the molecule, History (when it was firstly made, how & by whom), properties, applications. So, basically why would anyone want to make said compound **(All the schemes/figures must be done in chemdraw using the “ACS Document 1996” format).** [Do not repeat the content of the Executive Summary!] **Describe** the known syntheses (if many) and **Explain** why you have selected the synthetic route you intend to pursue. Include a general scheme of your synthetic route and then describe each step **(All the schemes/figures must be done in chemdraw using the “ACS Document 1996” format)**

**Experimental Section**

[text]; As per a journal publication. Subheading the name of the target, followed by the procedure (journal format) scaled to your needs. NO Schemes!

**Cost**

[text]; Make a table of the chemicals you are going to use as well as their quantities & cost for making 1 g of the final product.

**Safety**

[text]; Add the risk assessment forms ([https://koutentisresearchgroup.weebly.com/uploads/1/2/1/7/121715819/risk\_assessment\_form\_en\_2018[6876].docx](https://koutentisresearchgroup.weebly.com/uploads/1/2/1/7/121715819/risk_assessment_form_en_2018%5b6876%5d.docx)) for each step

**References** (these should appear numbered throughout your document (except the Executive Summary). Use ACS or RSC style.

1. Surname1, X1.; Surname2, X2.; ….; SurnameX, XX. *Journal Abbreviation-CASSI style* **Year**, *Volume*, xxx-xxx.