*ACM Data Science Task Force Course Example Template:*

*Total length should not exceed 4 pages, 2-3 pages preferred*

*Name of Course*

*Name and Location of Institution*

*Your Name*

*Email Address*

*Preferred: Link to complete course materials (e.g., syllabus, lectures, assignments). Either a permanent URL or a link to a zip file of materials.*

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**Knowledge Areas that contain competencies (knowledge, skills, and dispositions) covered in the course**

*[List Knowledge Area(s) and associated acronym. It might be easier to complete this table last – especially the total hours. Note that total hours are total instructional / contact hours, e.g., class time, lab, etc.]*

|  |  |
| --- | --- |
| **Knowledge Area** | **Total Number of Contact Hours** |
| *Name (e.g., Machine Learning* *(ML))* | *Number* |
|  |  |
|  |  |

**Where does the course fit in your undergraduate Data Science curriculum?**

[*Is this course part of a major? minor? certificate? In what year do students commonly take the course? Is it compulsory? Does it have pre-requisites, required following courses? How many students take it?*]

**Is this course from or used in other curricula/majors?**

[*Was it designed explicitly for a data science major? Was it adapted to better fit data science? Is it new but designed for multiple programs/audiences? Did it already cover important data science topics and has largely remained the same?]*

**What is covered in the course?**

*[Provide a short description. For example, your course catalog description.]*

**What is the format of the course?**

[*Is it face to face, online, or blended? How many contact hours? Does it have lectures, lab sessions, discussion classes?*]

**How are students assessed?**

[*What type and number of assignments are students expected to complete? (exams, papers, problem sets, programming projects, etc.). How long do you expect students to spend on completing assessed work?]*

**Course tools and materials**

*[A brief description of materials used (e.g., textbooks, programming languages, frameworks, environments, data sets, language packages, etc.) For each, indicate whether it is a freely available or paid resource.]*

**Why do you teach the course this way?**

[*A description of the course rationale and goals. If you know, please indicate the history and background of the course and when it was last reviewed/revised. Do students typically consider this course to be challenging?*]

**Body of Knowledge coverage**

*[For each Knowledge Area, list the sub-domains covered in whole or in part in the course. If in part, please indicate which knowledge/skills/dispositions are covered. This section will likely be the most time-consuming to complete, but is the most valuable for educators planning to adopt the computing-specific recommendations for a Data Science program at the undergraduate level.]*

|  |  |  |  |
| --- | --- | --- | --- |
| **KA** | **Sub-domain** | **Competencies Covered** | **Hours** |
| *XY* | *Full name of sub-domain* | *[Include an explanation as needed]* | *Num* |
|  |  |  |  |
|  |  |  |  |

**Additional topics**

*[List notable topics covered in the course that you do not find in the ACM Draft 2 Computing Competencies for Undergraduate Data Science]*

**Other comments**

*[optional]*