

Appendix

A. Method Inclusion/Exclusion Criteria and Limitations for Website data

Offerings could be included if they were located at regional, satellite, or similar site within part of a larger university system and their HRI offerings were entirely online and open to students at any location. Examples of HRI types included, but was not limited to, bioinformatics, clinical informatics, health informatics, and nursing informatics.

When determining involvement, partnership was interpreted broadly. Education offerings were matched to academic units such as college, schools, departments, programs, institutes and/or centers from website text. When available, courses listed as required or core to the offering were matched to those colleges, schools, or departments, etc., as well. Partnership was indicated if there were multiple academic units involved of any kind.

Offerings were excluded if:

- It did not have “informatics” in the title.
- Individual courses for scheduled research time/dissertation/thesis supervision.
- When the focus was not on HRI, such as a “statistics for bioinformatics” course.
- Dual degree courses (e.g., MD-PhD in Informatics) that have informatics existing as standalone degree to be completed in parallel (to avoid double counting).
- Individual courses that were part of a larger informatics degree, certificate, etc.
- Courses/programs that were listed as on hiatus/suspended/or were otherwise not able to be enrolled in at the time of search.
- Massive Open Online Courses (MOOCs) or other self-directed instruction.

- “Accelerated” programs, like Bachelor of Science to Masters, that had the same course requirements as existing programs but allowed students to condense the schedule (again, to avoid double counting).

Individual courses were only included when they were not located within a larger offering such as a certificate or degree. Courses that were identical but on different time schedules were only listed once. Cross listed courses were noted, but also counted once and as partnered.

We divided the institutions into subunits of colleges/schools and programs/departments/institutes to help determine partnerships. Most informatics offerings were embedded in either a college or a school, but there were offerings listed only within programs, departments, or centers/institutes. However, there was not a one-to-one ratio of colleges/schools to programs/departments/institutes/centers.

Regarding partnership, we did not use descriptions of faculty affiliations because they are rarely presented in context within educational course offerings. In addition, faculty may have “courtesy appointments” that do not reflect their participation in education.