High yield TICR classes + funding

Presented by Ava Yap

Resources complied by TICR scholars Audrey Brown, Caroline Melhado, Katherine Sanders, Ava Yap and Mignote Yilma

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High-yield TICR courses for any clinical researcher

**Bolded** courses are those that we find the most essential, if someone is working under a budget.

- One-off classes that were very helpful:
  - **Data management:** *Data Collection and Management Systems for Clinical Research* (EPI 218)
  - Implementation science: *Introduction to Implementation Science Theory and Design* (EPI 245)
Classes that should be taken in series:

- Stata-driven biostatistics (for more foundational epidemiology):
  - Summer: *Introduction to Statistical Computing in Clinical Research* (BIOSTAT 212)
  - Fall: *Biostatistical Methods for Clinical Research I* (BIOSTAT 200)
  - Winter: *Biostatistical Methods for Clinical Research II* (BIOSTAT 208) -- this course was where Audrey felt like the concepts were finally tying together
  - Spring: *Biostatistical Methods for Clinical Research III* (BIOSTAT 209)
  - Summer (2nd yr): *Biostatistical Methods for Clinical Research IV* (BIOSTAT 210)
Classes that should be taken in series (con’t)

- Fundamentals of epidemiology:
  - Foundational epidemiology: *Epidemiologic Methods* (EPI 203) - caution, heavy course load (but necessary)!!
  - Clinical Epi (screening and prediction tests): *Clinical Epidemiology* (EPI 204)
  - Clinical trials methodology: *Clinical Trials* (EPI 205)
Classes that should be taken in series (con’t)

- R-driven biostatistics (more helpful with big data, genomics etc.):
  - Summer: *Programming for Health Data Science in R* (BIOSTAT 213)
  - Fall: *Programming for Health Data Sciences In R II* (BIOSTAT 214)
  - Winter: *Machine Learning in R for the Biomedical Sciences: Methods for Prediction, Pattern Recognition, and Data Reduction* (BIOSTAT 216)
In terms of funding, Audrey and Katherine shared their mechanisms through their grants:

- T32 provides $16,000 per year if the recipient is pursuing a degree, or $4,500 per year for classes if not.
- NHLBI StARR funded 1 year of the TICR Masters
- VA Quality Scholars funded 1 year of the TICR Masters

NCSP also supports the TICR Masters