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| *Course Title / Titre du cours* | ***Intro to R*** |
| *Course Code / Code de cours* | *H-\_\_\_\_\_\_\_\_* |
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| *Target Population / Population cible* | *Novice R Users* |
|  | This course is intended for novice R users and analytics team leads/managers who’d like to learn how R/RStudio can be leveraged by their team. Throughout the course material, extra resources that can support further learning are highlighted. |
| *Course Duration / Durée* | *\_\_ days* |
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| *Language / Langue du cours* | *Offered in English* |
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| *Course Outline / Sommaire du cours* | **Course Schedule:**  Morning  Day 1:   * + Get one-on-one help opening and navigating R/Rstudio (optional 8:30 am)   + 1\_ Why R/Studio (9 a.m. approx. 30 min)   + 2\_Intro to R/Rstudio IDE     - Intro to Rstudio environment (20 min)     - R as a Calculator – 30min     - Variable Assignment -30min   **Break 10:30**   * + - Subsetting/querying -1 hr     - Functions (in Supporting Info)     - Exercises and practice   **Lunch 12 – 12:45**  Afternoon   * + 3\_Intro to Data Frames     - Subsetting and querying data -30 min     - Base plots, basic data visualizations -1 hrs     - Installing and loading packages – 30 min     - Exercises – 1 hr * Day 2   Morning   * + 9:00 a.m. Day 1 Review (30 min)   + 4\_ Advanced Data Wrangling     - select, filter, summarise, mutate, arrange 1.5 hrs     - **Break at 10 :30**   + Pipe Operations 30 min   + Joining and merging datasets   + Lunch 12 – 12:45   Afternoon   * + 5\_Intro to ggplot2 (1.5hr)   + Exercises (1hr)   + 6\_Even\_More\_R (time permitting)     - Importing different types of data Fun with Loops     - Optional interactive R learning with “SWIRL” package |
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| *Course Description / Description du cours* | The goal of this course is to provide novice R users a solid foundation in the best practices for data wrangling and analysis, while emphasizing strategies to ensure reproducibility. Learning a new programming language can be difficult. Even if you have coding experience, a new language introduces a new environment, styles, and syntax and can make you feel like a beginner again. There will be lots of opportunity for participants to move through exercises at their own pace and one-on-one assistance will be available throughout the course. |
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| *Benefits to Participants / Avantages pour les participants* | At the end of the two day session participants will be able to:  1) Preform basic data queries using dplyr and baseR  2) Perform data manipulations and summaries  3) Merge and append datasets  4) Produce fast plots for data exploration  5) Produce publication quality plots using ggplot2 |
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| *Minimum & maximum participants* | *Min= 8*  *Max = 25* |
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| *Course Category / Catégorie du cours* | |  |  | | --- | --- | | *Programming* | | |  |  | |
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| *Course date / Date de cours* | *Feb 13 & 14 2020* |
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| *Hours (from – to) / Heures* | *8:30-4 and 9-3:00* |
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| *Classroom with computers* | *Y* |
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| *Regular classroom* |  |
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| *Software to be installed?* | *R & RStudio* |
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| *Equipment in room? Flipchart? etc…* | *Whiteboard and projector would be nice* |
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| *Name of the instructors* | *Madalena Bartkowska* |
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| *Course to be offered to external participants?* | *No* |
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| *Course material? Binders needed?* | *Available on fld6filer:*  *\\fld6filer\METH\RCourse* |
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| *Course material to be sent to participant by email?* | *Word document with Syllabus and link to course material.* |
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| *Feedback questionnaire to be sent to participants?* | *Given in class on second day of course.* |
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| *An announcement could be made in the “Weekly info” email sent every week by Comm. Div.* |  |
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| *Confirmation emails are sent to participants 2 weeks before the start date* | *Yes and one week before with reminder of room, hours, and course expectations.* |
| *What kind of classroom setup is required?* | *Projector, white board and computers for users.* |
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