Course Syllabus

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| Course title and code: | Epidemiology 1 (CHS 334) |
| Program in which the course is offered: | Clinical Nutrition, Clinical Laboratory and nursing programs |
| Credit hours | 3 hours theoretical |
| total contact hours per semester | 45 hours |
| Level at which this course is offered: | 6th and 7th levels |
| Course prerequisites: | None |
| Time: | Wednesday ; 8 am-10am (Lecture)  10 am- 12 pm (Practical) |
| Location: | Class BB1 |
| College member responsible for the course | Noura Alomair, MPH |
| Contact information: |  |
| Office Number: | 188 |
| Phone : | Mobile: 0556484828 |
| Email: | nalomair@ksu.edu.sa |
| Office hours: | * Monday: 9 a.m. to 11 a.m. * Tuesday:9 a.m. to 12 p.m |
| Course Description |  |
| Definitions, purposes and characteristics of epidemiology, different health related events, different kinds of study designs and how to select a random sample, basic measurements in epidemiology, indices of community health, approaches to intervention in disease cycle (agent, host and environment), surveillance and investigation of various epidemics and outbreaks. | |

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| Teaching strategies |  |
| The course will be conducted in a form of lectures, class discussions, and practical exercises. | |
| Learning Resources |  |
| Required Text (s) | |
| * **Beaglehole R, Bonita R, Kjellstrom T.** (2006). Basic epidemiology. 2nd ed. Geneva: World Health Organization * **Pearce N.** (2005).A Short Introduction to Epidemiology. Second Edition. New Zealand: Centre for Public Health Research, MasseyUniversityWellington Campus. * **Bailey L, Vardulaki K, Langham J, Chandramohan D.** (2005). Introduction to Epidemiology: Understanding Public Health. UK: Bell & Bain Ltd. | |

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| Essential References | | |
| * **Olsen J, Christensen K, Murray J, Ekbom A.** (2010). An Introduction to Epidemiology for Health Professionals. New York: Springer. * **Carr S, Unwin N, Pless-Mulloli T.** (2007). An Introduction to Public Health and Epidemiology. 2nd ed. UK: McGraw-Hill House. * **Farmer R, Lawrenson R.** (2004). Lecture Notes: Epidemiology and Public Health Medicine. Fifth Edition. UK: Blackwell Publishing Ltd. | | |
| Recommended Journals | | |
| * American journal of epidemiology. Available at **http://aje.oxfordjournals.org/** * Journal of epidemiology. Available at **http://www.jstage.jst.go.jp/browse/jea** * European journal of epidemiology. Available at[**http://www.springer.com/public+health/journal/10654?changeHeader**](http://www.springer.com/public+health/journal/10654?changeHeader) | | |
| Electronic Materials and Web Sites | | |
| * [www.who.int](http://www.who.int) | | |
| Topics to be covered | | |
| List of topics | Week due |
| **Introduction to epidemiology** | 1st, 2nd |
| **Epidemiology of diseases and health conditions** | 3rd till 6th, |
| **Basic measurements in epidemiology** | 7th |
| **Indices of community health** | 8th, 9th, |
| **Epidemiological studies** | 10th, 11th, 12th |
| **Sampling in epidemiological researches** | 13th, 14th |
| **Epidemiology and prevention** | 15th |

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| Schedule of Assessment Tasks for Students During the Semester | | |
| Assessment task | Week due | Proportion of Final Assessment |
| **Mid-term I** | 6th week | 20 % |
| **Mid-term II** | 10-12th week | 20% |
| **Assignment and discussion (practical)** | Continuous | 20 % |
| **End Semester Exam** | 17th -18th week | 40 % |
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| Class rules | | |
| * Attending the class at the predefined time is encouraged and no delay is allowed after the time set. * Positive participations with the instructor is recommended, but side talks are prohibited. (Participations will be credited by the instructor) * Using mobiles is prohibited during the lecture | | |

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| **Lecture** | **Topic** |
| 1 | Introduction to epidemiology (concept and definition of related terms) |
| 2 | Uses of epidemiology and sources of epidemiological data |
| 3 | Measurements of disease frequency |
| 4 | Causation in epidemiology |
| 5,6 | Epidemiological variables (personal characteristics) |
| 7 | Epidemiological variables (place and time) |
| 8 | Epidemiological studies (Descriptive studies) |
| 9 | Epidemiological methods (descriptive studies) |
| 10 | Epidemiological methods (analytic-cohort study) |
| 11 | Epidemiological methods (analytic-case control study) |
| 12 | Epidemiological methods (intervention-experimental studies) |
| 13 | Surveillance |
| 14 | Screening |