Miami Dade College

Course Description

IDS2123 | Leadership in Science, Technology, Engineering and Mathematics | 1 Credit

In this course students will research their career interests and interview professionals in Science, Technology, Engineering and Mathematics (STEM). Students will learn to identify, compare, and evaluate upper division degree programs and prepare applications for admission to these programs.

Course Competencies:

Competency 1: The student will be able to explore careers options in Science, Technology, Engineering and Mathematics (STEM) by:

1. Identifying career and employment options within their major field(s) of interest
2. Recognizing career opportunities by interviewing professionals in their field(s) of interest
3. Developing networks in the field by attending meetings of local professional organizations
4. Identifying educational opportunities by attending college or community presentations related to their field of interest

Competency 2: The student will be able to explore transfer school options by:

1. Evaluating educational options through college catalogs
2. Identifying ten transfer options and evaluating them for location, strengths in professors and field or interest, cost, and transfer requirements
3. Developing contacts with schools and locating local alumni organizations/ representatives
4. Identifying appropriate scholarship and financial aid opportunities
5. Developing relationships with college/ university admissions officers

Competency 3: The student will be able to begin the transfer admission application process by:

1. Creating a written personal timetable for the application process beginning with the requirements to meet early deadlines
2. Identifying professors willing to write recommendations and requesting recommendations
3. Identifying a minimum of six schools to which to apply
4. Writing and revising personal statements and essays for transfer institutions
5. Completing a minimum of four college applications
6. Identifying scholarship and financial aid opportunities
7. Utilizing phone and e-mail contacts to follow up applications

Competency 4: The student will be able to continue to build his/her portfolio of academic and personal achievements which will be developed and fine-tuned until the end of the term by:

1. Developing a personal resume and curriculum vitae
2. Writing an autobiography
3. Writing a personal press release describing a significant STEM-related event in they participated
4. Identifying outstanding graded papers and/ or coursework to include in portfolio
5. Identifying and including news items relevant to their MDC experience in their portfolio

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Use quantitative analytical skills to evaluate and process numerical data