

presents an Open House for

Pre College Programs

Saturday, January 24, 2015
1:00pm – 5:00pm

PROGRAM DESCRIPTIONS

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MSU Agriculture and Natural Resources

1. **Multicultural Apprenticeship Program (MAP)**

Who: High school students in 10th and 11th grades who have a strong interest and aptitude in science, math and other academic areas

When: July 12 - August 7, 2015

Where: Michigan State University

What: The Multicultural Apprenticeship Program (MAP) is a four-week summer experience program sponsored by the CANR at MSU. MAP gives high school students the opportunity to experience college life and to explore the many exciting educational and career opportunities in the agricultural and food sciences, natural resources and

related fields.

Through MAP, students work in various areas including food science, agricultural engineering, forestry, animal sciences, horticulture and crop and soil sciences, environmental and natural resource management, veterinary medicine as well as other areas.

Each MAP participant is matched with a CANR faculty member to work on a research project. During the four weeks, students will also participate in field trips, leadership seminars, and other educational, social and cultural activities. Students will also gain hands-on experience in laboratory and field research, work with computers and other highly technical equipment. MAP participants live on campus in a university residence hall and eat meals in the dining hall.

Find more information and applications online at

http://www.canr.msu.edu/pre_college/multicultural_apprenticeship_program_map

Cost: Free

Application Requirements: Transcripts and two letters of recommendation

Application Due: April 3, 2015. Notifications – acceptance or denial – will be made by mid-May.

Contact: Leonard A. Savala III Ph.D.

Director of Undergraduate Diversity

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2. ANR Institute for Multicultural Students (AIMS)

Who: High school students in ninth through 11th grades

When: July 12 – 17, 2015

Where: Michigan State University

What: The ANR Institute for Multicultural Students (AIMS) is a one-week program sponsored by the College of Agriculture and Natural Resources (CANR) at Michigan State University (MSU). AIMS gives high school students broad exposure to the food and agricultural sciences, natural resources and related fields.

A career in agriculture or natural resources involves more than farming, including a wide variety of educational and career opportunities. During the participants stay on campus they participate in demonstrations, tours and other hands-on activities designed to give a sampling of what agriculture and natural resources has to offer. Students will also have the opportunity to participate in a number of other educational, cultural and social activities.

Find more information and applications online at

http://www.canr.msu.edu/pre_college/anr_institute_for_multicultural_students_aims

Cost: Free

Application Requirements: Transcript and one letter of recommendation

Application Due: April 3, 2015. Notifications – acceptance or denial – will be made by mid-May

Contact: Leonard A. Savala III Ph.D.

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3. ANR Institute for Multicultural Students-Bilingual (AIMS-B)

Who: High school students in ninth through 11th grades

When: July 26th – July 31st 2015

Where: Michigan State University

What: The ANR Institute for Multicultural Students-Bilingual (AIMS-B) offers the same opportunities as described above in the AIMS program but AIMS-B is offered to bilingual students. This program is aimed at students with a migrant background.

Find more information and applications online at

http://www.canr.msu.edu/pre_college/anr_institute_for_multicultural_students-bilingual_aims-b

Cost: Free

Application Requirements: Transcript and one letter of recommendation

Application Due:

Contact: Leonard A. Savala III Ph.D.

Director of Undergraduate Diversity

Michigan State University

Justin S. Morrill Hall of Agriculture

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MSU College of Education

1. Summer High School Scholars Program

Who: Current 9th, 10th & 11th graders (Class of 2016, 2017 & 2018)

When:

11th graders – Monday, July 6 – Friday, July 31, 2015

9th & 10th graders – Friday, July 17 – Friday, July 31, 2015

Where: Michigan State University

What: The College of Education Summer High School Scholars Program is a residential program designed to assist in preparing high school students for college attendance and nurture an interest in a career in education.

Cost: There are no program costs. Transportation is provided from key locations (e.g. Detroit, Grand Rapids, Flint, Chicago).

Application Requirements:

-Current 9th, 10th, & 11th graders (Class of 2016, 2017 & 2018)

-Demonstration of academic potential

-Recommendation of faculty member

-Writing sample

-Transcript with GPA

Application Due: Friday, May 1, 2015

<https://www.educ.msu.edu/summerscholars/>

-Electronic application & recommendation form must be submitted by 11:59pm.

-Transcripts can be scanned and uploaded with electronic application or faxed but must be signed by school official.

Contact: Dr. Marini Lee, Program Coordinator

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MSU College of Engineering

1. High School Engineering Institute 1 (Residential)

Who: High school sophomores, juniors and seniors

When: Sunday, June 21, 2015 – 1:00 PM to Thursday, June 25, 2015 – 7:00 PM

Where: Michigan State University

What: Students spend a week exploring engineering fields through lecture, hands-on activities, lab and design sessions run by faculty and student assistants from our various programs. Special sessions are also presented on diversity, cooperative education, and international education opportunities.

Cost: \$800.

Application Requirements: High school sophomores, juniors, and seniors with a 3.0 GPA or better in engineering core courses such as math, sciences, and technology. Transcript of a full academic year required. Attending 10th-12th grade in Fall 2015

Application Due: June 5, 2015

Contact: Luis Donado – (517) 353-7282 – donadoto@egr.msu.edu

2. High School Engineering Institute 2 (Residential)

Who: High school sophomores, juniors and seniors

When: Sunday, June 28, 2015 – 1:00 PM to Thursday, July 2, 2015 – 7:00 PM

Where: Michigan State University

What: Students spend a week exploring engineering fields through lecture, hands-on activities, lab and design sessions run by faculty and student assistants from our various programs. Special sessions are also presented on diversity, cooperative education, and international education opportunities.

Cost: \$800.

Application Requirements: High school sophomores, juniors, and seniors with a 3.0 GPA or better in engineering core courses such as math, sciences, and technology. Transcript of a full academic year required. Attending 10th-12th grade in Fall 2015

Application Due: June 12, 2015

Contact: Luis Donado – (517) 353-7282 – donadoto@egr.msu.edu

3. High School Engineering Institute 3 (Residential)

Who: High school sophomores, juniors and seniors

When: Sunday, July 12, 2015 – 1:00 PM to Thursday, July 16, 2015 – 7:00 PM

Where: Michigan State University

What: Students spend a week exploring engineering fields through lecture, hands-on activities, lab and design sessions run by faculty and student assistants from our various programs. Special sessions are also presented on diversity, cooperative education, and international education opportunities.

Cost: \$800.

Application Requirements: High school sophomores, juniors, and seniors with a 3.0 GPA or better in engineering core courses such as math, sciences, and technology. Transcript of a full academic year required. Attending 10th-12th grade in Fall 2015

Application Due: June 26, 2015

Contact: Luis Donado – (517) 353-7282 – donadoto@egr.msu.edu

4. Introduction to Robotics Engineering (Residential)

Who: High school sophomores, juniors, and seniors

When: Sunday, July 19, 2015 – 1:00 PM to Thursday, July 23, 2015 – 5:15 PM

Where: Michigan State University

What: Designed for students interested in exploring the exciting field of robotics. Students will learn about the fields of engineering involved in robotics and will work with VEX IQ and VEX robotics, biomimetic robotic fish, nanorobotics, mechatronics and, manufacturing automation.

Cost: \$800

Application Requirements: High school sophomores, juniors, and seniors with a 3.0 GPA or better in engineering core courses such as math, sciences, and technology. Transcript of a full academic year required. Attending 10th-12th grade in Fall 2015.

Application Due: July 4, 2015

Contact: Luis Donado – (517) 353-7282 – donadoto@egr.msu.edu

5. Lego Robotics 1 (Commuter)

Who: Students attending 4th – 8th grade in the Fall of 2015

When: Monday, June 8, 2015 – 8:00 AM to Friday, June 12, 2015 – 12:00 PM

Where: Michigan State University

What: This is an exciting, hands-on camp that teaches students to work in teams to build and program robots using the VEX IQ System – then face off against other teams in robot vs. robot competitions.

Cost: \$275 per participant per session

Application Requirements: No specific requirements other than application and attending 4th-8th grade in Fall 2015.

Application Due: June 1, 2015

Contact: Bob Watson – (517) 353-7282 – rwatson@egr.msu.edu

6. Lego Robotics 2 (Commuter)

Who: Students attending 4th – 8th grade in the Fall of 2015

When: Monday, June 15, 2015 – 8:00 AM to Friday, June 19, 2015 – 12:00 PM

Where: Michigan State University

What: This is an exciting, hands-on camp that teaches students to work in teams to build and program robots using the VEX IQ System – then face off against other teams in robot vs. robot competitions.

Cost: \$275 per participant per session

Application Requirements: No specific requirements other than application and attending 4th-8th grade in Fall 2015.

Application Due: June 8, 2015

Contact: Bob Watson – (517) 353-7282 – rwatson@egr.msu.edu

7. **Lego Robotics 3 (Commuter)**

Who: Students attending 4th – 8th grade in the Fall of 2015

When: Monday, June 22, 2015 – 8:00 AM to Friday, June 26, 2015 – 12:00 PM

Where: Michigan State University

What: This is an exciting, hands-on camp that teaches students to work in teams to build and program robots using the VEX IQ System – then face off against other teams in robot vs. robot competitions.

Cost: \$275 per participant per session

Application Requirements: No specific requirements other than application and attending 4th-8th grade in Fall 2015.

Application Due: June 15, 2015

Contact: Bob Watson – (517) 353-7282 – rwatson@egr.msu.edu

8. **Spartan Engineering for Teens (Residential)**

Who: Students attending 4th – 8th grade in the Fall of 2015

When: Sunday, June 14, 2015 – 1:00 PM to Thursday, June 18, 2015 – 5:00 PM

Where: Michigan State University

What: Students in the program will use microsensors and robots while learning science, engineering, and mathematics. Working with science teachers and engineering faculty, students will design and build experiments. Students will learn about various engineering majors, be involved in short courses, demonstrations, field trips and hands-on experiments.

Cost: \$800 per participant per session

Application Requirements: 3.0 GPA or better in courses such as math, sciences, and technology. Transcript of a full academic year required. Attending 8th-9th grade in Fall 2015.

Application Due: June 1, 2015

Contact: Luis Donado – (517) 353-7282 – donadoto@egr.msu.edu

9. **Introduction to Radar for Student Engineers (Residential)**

Who: Students attending 11th-12th grade in Fall 2015.

When: Sunday, July 19, 2015 – 1:00 PM to Thursday, July 31, 2015 – 5:15 PM

Where: Michigan State University

What: Students will work in groups to build their own radar systems by utilizing the concepts learned in short lectures, demonstrations and lab tours. Instructors from MIT and Michigan State University will focus on topics such as radar development, radio waves and ranging, radar range equations, and radar signal modeling.

Cost: \$2500

Application Requirements: Students must have a GPA of 3.6 or better. Seniors must provide an ACT score of 28 or better, or a SAT score of 1230 or better. Please provide a transcript from a full year as well as the ACT/SAT score(s), if applicable.

Application Due: July 5, 2015

Contact: Luis Donado – (517) 353-7282 – donadoto@egr.msu.edu

MSU – Gifted and Talented Education (GATE)

1. CSI: Crime Scene Investigation Forensic Science Camp

Who: Students currently in grades 7, 8, and 9

When: June 21-27, 2015

Where: Michigan State University

What: A one-week commuter and residential program intended for academically talented students. Students work in a university setting with forensic science professionals to learn about the field and its sub-disciplines. This camp combines lecture, discussion and hands-on learning.

Cost: There is a \$100 application fee. Tuition for residential students is \$1,500. Tuition for commuter students is \$750.

Application Requirements: ACT Math of 19 **OR** ACT Composite of 20, **OR** SAT Math or Reading of 520 **OR** SAT Total of 960; teacher recommendation

Application Due: Friday, May 8, 2015

Contact: Gifted and Talented Education office
517-432-2129
gifted@msu.edu

2. MST: Math, Science and Technology

Who: Students currently in grades 7, 8, and 9

When: July 5-18, 2015

Where: Michigan State University

What: : A two-week commuter and residential program intended for academically talented students. Students choose from a variety of classes and workshops according to their interests. They learn in a university setting that combines lecture, discussion and hands-on learning.

Cost: There is a \$100 application fee. Tuition for residential students is \$1,900. Tuition for commuter students is \$950.

Application Requirements: ACT Math of 19 **OR** ACT Composite of 20, **OR** SAT Math or Reading of 520 **OR** SAT Total of 960; teacher recommendation

Application Due: Friday, May 8, 2015

Contact: Gifted and Talented Education office
517-432-2129
gifted@msu.edu

3. Future Docs

Who: Students currently in grades 7, 8, and 9

When: June 22-26, 2015

Where: Held at the MSU College of Osteopathic Medicine

What: A one-week program for students with a strong interest in science who want to learn more about becoming a doctor, nurse, pharmacist, or other health care professional. Students will discover the content of medical courses through demonstrations and hands-on activities, explore the options for undergraduate majors, and gain information about medical specialties.

Cost: There is a \$100 application fee. Tuition is \$750 for commuter students

Application Requirements: ACT Math of 19 **OR** ACT Composite of 20, **OR** SAT Math or Reading of 520 **OR** SAT Total of 960; teacher recommendation

Application Due: Friday, May 8, 2015

Contact: Gifted and Talented Education office
517-432-2129
gifted@msu.edu

4. CHAMP – Novi & ISHALL – Novi

Who: CHAMP Math and ISHALL English programs are designed for gifted students in grades 7-10

When:

ISHALL 1 and CHAMP 1 = September 2015 to May 2016, during the academic year

ISHALL 2 and CHAMP 2 = September 2016 to May 2017, during the academic year

Where: Location: MSU Tollgate Center located at 28115 Meadowbrook Road, Novi. *Conveniently located at the northwest corner of 12 Mile and Meadowbrook Roads near the M-5 interchange, in Novi*

Day and Time: Tuesdays 4-6p.m. and online weekly workshops

What: CHAMP Math and ISHALL English programs are designed for gifted students in grades 7-10. In two years, CHAMP and ISHALL students will complete the content required for Michigan high school graduation and meet the Common Core National Standards for Math and English at an accelerated pace.

- Classes will be held at the Tollgate Education Center in Novi.
- Student progress is measured through weekly homework assignments, quizzes and texts.
- Mid-term and final evaluations are sent to each student's family and school.
- Students from all areas surrounding Novi are welcome.
- Information meeting to be held in March 2015.

Cost: Tuition is \$1,500 per year. Reservation fee of \$100 upon acceptance. One-time \$100 distance learning fee. Other costs - books for ISHALL.

Application Requirements: Students currently in grades 6, 7, and 8 can apply; ACT Math of 21 **OR** ACT Composite of 23, **OR** SAT Math of 530 **OR** SAT Total of 1010; teacher recommendation, grade report, online diagnostic test

Application Due: Friday, May 8, 2015

Contact: Gifted and Talented Education office
517-432-2129
gifted@msu.edu

