

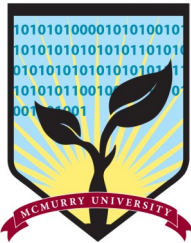
2010-2011

McMurry Program in

BIOMEDICAL SCIENCE

For More Information, Contact: Dr. Larry Sharp: sharp1@mcmurryadm.mcm.edu
Visit us at <http://www.mcm.edu/~wyatta/wordpress/>. Find us on Facebook.

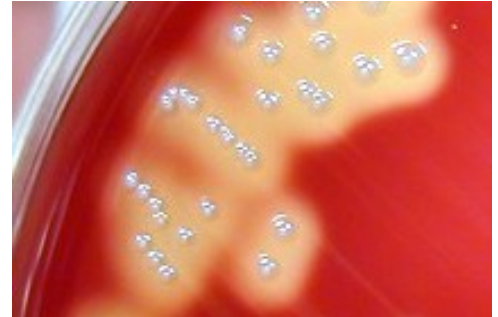
SNCS



All images in this brochure were taken by McMurry Biology students and faculty. © 2008

Our Approach?

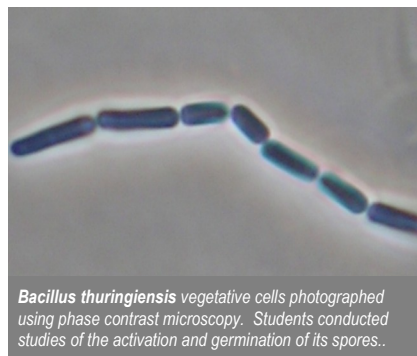
- **Use skills to teach content.** Memorizing the text-book is not science...**discovery** is science. We teach you the skills for discovery!
- **Do research instead of "exercises".** More realistic experience means better learning and more fun.
- **Classes tie together.** When your classes work together, "I get it!" and "That makes sense" are more common in your vocabulary!
- **Make it personal.** Your professor is your mentor, you are their apprentice.



Colonies of β -hemolytic *Staphylococcus aureus* isolated by students and grown on blood agar in BIOL 3410 Microbiology. The bacterium digests blood cells, clearing the red color from the agar.



Micrograph of *Saccharomyces cerevisiae* culture taken by students in a BIOL 3460 Genetics project studying UV-induced mutagenesis.



Bacillus thuringiensis vegetative cells photographed using phase contrast microscopy. Students conducted studies of the activation and germination of its spores..

What can I do with BIMS?

- **Become a doctor or dentist.** Use the BIMS program to prepare for the rigors of professional school.
- **Health research.** Find a cure, invent a vaccine, prevent an infection, make a difference.
- **Forensic science.** Let your friends ooh and ahh as you describe your job living the life of CSI.
- **Work in biotech.** Work it, teach it, discover it, sell it, through your experience and skills in biotech.
- **Become a science writer.** Are you tired of reading stories or watching TV reporters who are scientifically illiterate? Change that!
- **Go into biotech law.** Who will help biotech companies protect their discoveries? It could be you!
- **Start a company.** Turn your discoveries into a business—make a living!

What are BIMS Students Doing?

- **Microbes in Public Health.** Dr. Wilson had his classes test foods for dangerous microbes, and test McMurry students for dangerous MRSA. Research posters tell the story!
- **Cancer Research.** Dr. DiFrancesca has students in her classes studying how to prevent and treat cancer. Be part of the work when you enroll in her classes. Advanced students plan on presenting their results at a medical conference.
- **Isolating Viruses.** Dr. Benoit's senior students in Immunology isolate viruses and study host range as a way of introducing how specific immunity works. Their work will be displayed in research posters.
- **Receiving Awards.** BIMS students were accepted for early medical school acceptance via the JAMP program, for the 3+4 dental program, and summer research programs. Our students are the best!

You Prove What You Can Do!

- **Biological Portfolio.** Cells, products, gels, and organelles obtained in classes demonstrate your skills in the lab.
- **Lab Data and Reports Portfolio.** Data and reports on projects demonstrate your analytical and communication skills.
- **BIMS Junior Exam.** Proof you "know your stuff" comes from exams taken in the junior year over your biology knowledge.



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School of Natural &
Computational Sciences