

MANCHESTER HIGH SCHOOL WEST (MHSW)
FIRST TEAM 501
Extended Learning Opportunities (ELO'S)

Purpose:

Extended Learning Opportunities (ELO's) are provided for by the New Hampshire Department of Education to provide learning opportunities beyond the classroom. The rules dictate 150 hours of learning for one credit or 75 hours for a half credit. The proposal provides an ELO of one-half credit for a West High FIRST Team 501 member student achieving 75 hours of active membership. Students must apply for credit, list learning objectives, record the required activities and have them verified by their adult mentor. Credit will be granted by the Assistant Principal after review. Credit will be awarded when a student accrues 150 or 75 hours in one or combined activities in several areas. The areas of activity are:

- Engineering and Design; building, machining, CAD, programming, etc.
- Graphics and Information; IT, web page, brochure design, etc.
- Leadership and Management; meeting organization, activity management and oversight etc.
- Community Relations; fundraising, community service, etc.
- Competition and Enrichment; competition participant, team support, etc.

These activities reflect MHSW's mission and Statement of Purpose. They also meet the SAU 47 District's mission and the NH-DOE Minimum Requirement for High Schools.

From the school's Statement of Purpose:

- Create and utilize learning strategies for students
- Provide connections between and among disciplines
- Expose students to technology and engage them in its application
- Apply critical thinking to defining and solving problems
- Work independently and collaboratively
- Commit to community service as aware and responsible citizens.

Procedure:

- Students will apply for the ELO credit before the start of the school year and file the proper request.
- Students will do their required activity under the mentorship of an adult mentor. He/She will corroborate that the student has accomplished the desired outcomes.
- Students will complete a daily "log" of their participation and have the mentor sign off.

After completion of the required 150 or 75 hours, the student may submit the paperwork for approval.

The 150 or 75 hours may be completed in one area or in a combination of areas. These are:

- | | |
|------------------------------|-------------------------------|
| A. Engineering and Design | D. Community Relations |
| B. Graphics and Information | E. Competition and Enrichment |
| C. Leadership and Management | |

Attached are the forms students will need to complete and follow in order to be awarded credit.

ELO INSTRUCTIONS

To apply and obtain a half-credit for participation in FIRST robotics, students must follow the following process. Don't worry, it's not painful.

- Apply, apply, and apply.
- Fill out the application form.
- Where it says "Learning Outcomes," take a few from the attached list. Write them in as written. You don't need more than five, but you should have at least three. They are pretty generic and can apply to several of the categories. Your goal is to work to achieve this knowledge that you want to gain.
- Have me sign it and let me take the form. I will get it signed from either Mr. Dichard at West or Mr. Farley at Goffstown. I'll give you a copy and **MAKE SURE YOU DON'T LOSE IT!!**
- Log, log and log some more.
- Keep the original sent to you as a master. Make a copy or print out a copy for EACH ACTIVITY that you do.
- Make sure that the mentor in charge **SIGNS** your log entry for the day. Mentors - please note the hours written in.
- Keep your logs in a notebook or something you won't lose your logs in. It is YOUR responsibility to keep your paperwork.
- After 75 hours, we'll go over your stuff to make sure that everything is educationally documented. If it isn't, you may need to make up hours. Once everything is satisfactory, I'll sign off on it and have the appropriate AP sign off and give you credit.
- Make sure you enter the appropriate Activity Category (A, B, C, D or E).

Mr. Forcier
Faculty Advisor

ELO'S LEARNING OUTCOMES – TEAM 501

Students should pick and apply the learning outcomes they wish to achieve from the following and use them on their application under "Learning Outcomes". Use at least three but not more than five. You can add your own, but use the format as shown below.

- I want to learn about the engineering process and how to apply it.
- I want to learn how to use machine tools to make robot parts and accessories.
- I want to learn how to apply the integration of mechanics, pneumatics and electronics.
- I want to learn to use CAD systems for the design process.
- I want to learn how to create web sites, their management and upkeep.
- I want to learn about IT systems and their integration in the information age.
- I want to learn how to use graphic software to create brochures, livery, etc.
- I want to become a manager and learn how to apply the management process.
- I want to learn how to apply business procedures.
- I want to learn how to organize, manage and execute activities or groups.
- I want to learn how to raise public awareness of the organization.
- I want to create and manage public service projects from the organization to the community.
- I want to become more comfortable with my public speaking skills.
- I want to be part of a team learning about strategy, critical thinking, and competition.
- I want to learn about team work and group dynamics.
- I want to learn about myself, my skills and likes/dislikes and abilities.
- I want to learn leadership skills and the responsibilities that go with them.
- I want to learn and develop my personal awareness, critical thinking skills and problem solving abilities.
- I want to gain experience and confidence to be an independent thinker and person.

FIRST TEAM 501 ELO APPLICATION

Application Date: _____

Name: _____ Class of: _____

Address: _____ School ID: _____

Email: _____

Home Phone: _____ Student Cell: _____

Learning Outcomes (or, what do you want to learn?)

Proposal Approval:

Date: _____

Student Signature _____

Advisor Signature _____

AP Signature _____

Credit Approval:

Date: _____

Total Hours: _____

AP Signature _____