Maximum Goal Differential = 7

RANK TEAM W L T GmPerf Sched Total Last 5

1,Liberty University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 11 0 0, 4.0, 9.1, 13.05, 13.24

2,Adrian College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12 4 0, 2.5, 8.0, 10.55, 9.73

3,Minot State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 3 0, 2.6, 7.3, 9.87, 9.92

4,Lindenwood University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12 4 0, 0.5, 8.9, 9.40, 9.95

5,McKendree University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 3 0, 1.4, 8.0, 9.39, 9.23

6,Midland University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9 6 1, 1.6, 7.7, 9.28, 8.65

7,Indiana Tech,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 4 1, 2.3, 6.8, 9.18, 9.41

8,University of Massachusetts-Amherst,\_\_\_\_\_\_ 7 3 0, 1.8, 7.3, 9.07, 9.58

9,Maryville University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 8 1, 1.3, 7.6, 8.88, 10.37

10,Arizona State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 5 0, 1.5, 6.2, 7.76, 7.07

11,Miami University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6 8 0, 0.2, 7.5, 7.71, 6.66

12,Michigan State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 1 0, 2.4, 4.9, 7.30, 7.03

13,University of Michigan-Dearborn,\_\_\_\_\_\_\_\_\_\_ 4 3 2, 0.3, 6.7, 7.07, 7.90

14,University of Michigan,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 6 1, -0.5, 7.2, 6.65, 7.11

15,Grand Valley State University,\_\_\_\_\_\_\_\_\_\_\_\_ 5 4 1, 0.8, 5.5, 6.33, 6.39

16,Grand Canyon University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 7 3, -0.2, 6.3, 6.09, 6.21

17,University of Colorado,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 7 2, 0.1, 5.8, 5.91, 4.95

18,University of Rhode Island,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 7 0, -1.4, 6.9, 5.54, 6.12

19,Aquinas College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 8 1, -1.1, 6.3, 5.25, 4.97

20,University of Minnesota,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0, -4.8, 9.7, 4.84, 5.23

21,University of Utah,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 6 0, -0.3, 5.2, 4.83, 4.51

22,Colorado State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 7 0, -1.7, 5.3, 3.60, 3.83

23,Davenport University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 6 1, -3.0, 6.6, 3.57, 3.68

24,Concordia University-Ann Arbor,\_\_\_\_\_\_\_\_\_\_\_ 2 11 0, -3.5, 7.0, 3.52, 2.84

25,Penn State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0, -5.0, 8.5, 3.51, 3.18

26,Roosevelt University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0, -7.0, 9.1, 2.14, 2.43

27,University of Denver,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 6 0, -4.4, 3.8, -0.60, -0.33

28,United States Air Force Academy,\_\_\_\_\_\_\_\_\_\_ 0 6 0, -7.0, 5.1, -1.92, -2.08

**Maximum Goal Differential = 1**

**(i.e. just considers W, L, T and schedule strength)**

**RANK TEAM W L T GmPerf Sched Total Last 5**

**\ 1,Liberty University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 11 0 0, 1.0, 7.5, 8.51, 8.44**

**2,Lindenwood University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12 4 0, 0.5, 7.4, 7.89, 7.98**

**3,Adrian College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12 4 0, 0.5, 7.3, 7.79, 7.63**

**4,McKendree University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 3 0, 0.4, 7.2, 7.57, 7.41**

**5,Minot State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 3 0, 0.5, 6.9, 7.49, 7.57**

**6,University of Massachusetts-Amherst,\_\_\_\_\_\_ 7 3 0, 0.4, 7.0, 7.45, 7.55**

**7,Indiana Tech,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 4 1, 0.4, 7.0, 7.40, 7.27**

**8,Michigan State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7 1 0, 0.8, 6.6, 7.34, 7.08**

**9,Midland University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9 6 1, 0.2, 7.1, 7.29, 7.25**

**10,Maryville University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 8 1, 0.1, 7.2, 7.27, 7.72**

**11,Arizona State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10 5 0, 0.3, 6.9, 7.25, 7.41**

**12,University of Michigan-Dearborn,\_\_\_\_\_\_\_\_\_\_ 4 3 2, 0.1, 7.0, 7.07, 7.34**

**13,Miami University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6 8 0, -0.1, 7.2, 7.04, 6.77**

**14,University of Michigan,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 6 1, -0.2, 7.1, 6.90, 6.96**

**15,Grand Valley State University,\_\_\_\_\_\_\_\_\_\_\_\_ 5 4 1, 0.1, 6.7, 6.79, 6.90**

**16,Grand Canyon University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 7 3, -0.1, 6.8, 6.71, 6.65**

**17,University of Colorado,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 7 2, -0.1, 6.7, 6.56, 6.36**

**18,University of Rhode Island,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 7 0, -0.4, 6.9, 6.55, 6.71**

**19,Aquinas College,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4 8 1, -0.3, 6.8, 6.51, 6.36**

**20,University of Minnesota,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0, -1.0, 7.4, 6.42, 6.41**

**21,Roosevelt University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0, -1.0, 7.4, 6.41, 6.48**

**22,Penn State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0 6 0, -1.0, 7.4, 6.40, 6.39**

**23,Concordia University-Ann Arbor,\_\_\_\_\_\_\_\_\_\_\_ 2 11 0, -0.7, 7.0, 6.32, 6.35**

**24,Colorado State University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 7 0, -0.4, 6.7, 6.27, 6.11**

**25,University of Utah,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3 6 0, -0.3, 6.6, 6.23, 6.02**

**26,Davenport University,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 6 1, -0.6, 6.8, 6.19, 6.07**

**27,United States Air Force Academy,\_\_\_\_\_\_\_\_\_\_ 0 6 0, -1.0, 6.6, 5.60, 5.60**

**28,University of Denver,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1 6 0, -0.7, 6.2, 5.53, 5.64**

**- \* in place of rank indicates team whose rank is based on fewer than 3 scores.**

**The program starts all teams with an equal arbitrary value and then**

**adjusts them all recursively based on game scores until the lowest cumulative**

**error between expected goal differentials and actual goal differentials is**

**reached (convergence). One effect often noticed is that a team's rating can**

**change slightly without playing due to previous opponents playing which affects**

**their rating and their opponent's rating, etc.**

**The Total column is in goal units and the difference in this value between**

**any two teams is the predicted goal differential for a game played at a**

**neutral site between those two teams.**

**It should be noted that these rankings are an average performance value**

**for each team for the entire season, all games are equally weighted, so a team's**

**latest game may make up only 1/40th of a teams rating at the end of the season.**

**Games that go to shootouts for decision are considered ties for ratings purposes.**

**Actually, there are two different rankings listed below. The first is as described**

**above with the maximum goal differential used per game set at 7.**

**This ordering ends up similar to** [**CCHP**](https://www.google.com/url?q=http://www.uafhockey.com/hratings.html&source=gmail-html&ust=1641008138660000&usg=AOvVaw3J3hBuOZ1ansBrKgC6MUnr)**, although differences do arise due to CCHP**

**considering home ice advantage and CCHP not using a goal differential limit.**

**The second ranking sets maximum goal differential at 1, thereby just considering**

**whether the game was won, lost, or tied (and strength of opponent). Note that the Total column**

**in the GD=1 ranking is therefore in win percentage units rather than goal units. A rated .01**

**ahead of B can be interpreted as saying that if these two teams played exclusively against**

**each other, A's predicted winning percentage is 1 percentage point higher than B's**

**(i.e. A's predicted winning percentage vs. B would be .495, B's against**

**A would be .505). However, since the teams do not play exclusively against the other it**

**is actually a little bit more complex than above as teams can be ranked as high as 1.0**

**above their average opponent (if they were undefeated and untied) and as low as 1.0**

**below their average opponent (if they lost all of their games).**

**Not surprisingly, the ordering ends up very similar to** [**KRACH**](https://www.google.com/url?q=http://rpihockey.net/misc.rank1.shtml&source=gmail-html&ust=1641008138661000&usg=AOvVaw35ZRCtbYOlH3j-g6BObYC1)**.**

**Currently, teams with as few as 3 scores are ranked. The more games that go**

**into a team's ranking, the more accurate their ranking will be.**